

SECTION 07722

ROOF SCUTTLES/SMOKE VENTS

PART 1 GENERAL

1.01 SUMMARY

A. Related Sections:

1. 05500 - Metal Fabrications.
2. 06100 - Carpentry.
3. 07511 - Multi-Ply Mineral Surfaced Built-up Roofing.
4. 07525 - SBS Modified Bitumen Mineral Surfaced Roofing.
5. Division 7 - Roofing.
6. 09900 - Painting.
7. Division 13 - Security System.

1.02 SUBMITTALS

A. Submit properly identified manufacturer's catalog cuts and technical data for review before starting work.

B. Provide Shop Drawings.

1.03 QUALITY ASSURANCE

A. Smoke Vents: Underwriters Laboratories (UL) listing.

B. Missile Impact Certification:

1. Miami-Dade County product approval demonstrating compliance with FBC missile impact criteria for roof scuttle/smoke vent type, size, and configuration.

C. Factory Mutual (FM) Rating: FM 1-\_\_\_\_\_.

1. Comply with calculations, signed and sealed by a Florida registered professional engineer, establishing wind velocity pressure values for the specific project according to American Society of Civil Engineers (ASCE) 7-98 using a wind speed of 146 mph, exposure category "C", and a wind load importance factor of 1.15.

D. Calculations/Test Results/Details:

1. Pressure test results by a M-DCPS accepted nationally recognized independent laboratory for supplied roof

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- scuttle/smoke vent units.
2. Installation details, signed and sealed by a Florida registered professional engineer, with anchorage system noted and specified to comply with ASCE 7-98.

1.04 WARRANTY

- A. Contractor shall furnish the Board a 5 year written warranty covering quality of work by applicator, and 20 year written warranty from manufacturer, against defects in materials, for repair and replacement in conjunction with the roofing warranty.

PART 2 PRODUCTS

2.01 ROOF SCUTTLES

- A. 30 inches wide by 54 inches long, galvanized steel, complete with padlock hasps inside (padlocks are not in contract), and factory primed ready for field painting as specified in Painting - Section 09900.
- B. Manufacturers:
  1. Babcock-Davis Hatchways, Arlington, MA: Model 6-201.
  2. Bilco Company, New Haven, CT: Model NB-20.
  3. O'Keefe's, San Francisco, CA: Model RHGS14305400.

2.02 SMOKE VENTS

- A. 60 inches wide by 96 inches long double leaf smoke vent, galvanized steel, factory primed ready for field painting as specified in Painting - Section 09900, and no exterior release handle. Provide opening and closing mechanisms accessible from stage floor.
- B. Manufacturers:
  1. Babcock-Davis Hatchways, Arlington, MA: UL6096V2.
  2. Bilco Company, New Haven, CT: Model DSH 6096.

2.03 FABRICATION

- A. Fabricate with welded or sealed mechanical corner joints, and with cant strips and base profile coordinated with roof insulation thickness.
- B. Sloping Roofs: Where slope of roof deck exceeds 1/4" per foot, fabricate curb/support units with height tapered to

match slope, to result in level installation of tops of units.

2.04 FINISHES

- A. Factory primed, ready for field painting as specified in Section 09900 - Painting.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install according to manufacturer's instructions and accepted Shop Drawings.
- B. Coordinate dimensions with rough-in sheets or Shop Drawings of equipment to be supported.
- C. Provide wood nailers at tops of curbs. Coordinate with thickness of insulation and roof flashing as indicated, and tapered where necessary to compensate for roof deck slopes of 1/4" per foot and less.
- D. Connect sensing devices at scuttles and smoke vents to building security system.

END OF SECTION