

BILCO Type VM VersaMount® replacement roof hatch allows you to replace a damaged roof hatch without re-roofing. Simply remove the cover from the damaged hatch and place the VersaMount® hatch on top of the existing curb. The low-profile VersaMount® curb features a built-in flange and apron and innovative anchor clip system to ensure a fast, secure, and weather tight installation. Available in a number of standard sizes. For more information, please visit our website [www.bilco.com](http://www.bilco.com) or call 1-800-366-6530.

## SECTION 077233

### ROOF HATCHES

#### (BILCO TYPE VM)

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Work Included: Provide factory-fabricated roof hatches for ladder access.

##### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data.
- B. Shop Drawings: Submit shop drawings including profiles, accessories, location, adjacent construction interface, and dimensions.
- C. Warranty: Submit executed copy of manufacturer's standard warranty.

##### 1.3 QUALITY ASSURANCE

- A. Manufacturer: A minimum of 5 years experience manufacturing similar products.
- B. Installer: A minimum of 2 years experience installing similar products.
- C. Manufacturer's Quality System: Registered to ISO 9001 Quality Standards including in-house engineering for product design activities.

##### 1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in manufacturer's original packaging. Store materials in a dry, protected, well-ventilated area. Inspect product upon receipt and report damaged material immediately to delivering carrier and note such damage on the carrier's freight bill of lading.

##### 1.5 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard warranty. Materials shall be free of defects in material and workmanship for a period of five years from the date of purchase. Should a part fail to function in normal use within this period, manufacturer shall furnish a new part at no charge.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURER

- A. Basis-of-Design Manufacturer: Type VM Versamount® Access Roof Hatch by The BILCO Company, P.O. Box 1203, New Haven, CT 06505, 1-800-366-6530, Fax: 1-203-535-1582, Web: www.bilco.com.

### 2.2 ROOF HATCH

- A. Furnish and install where indicated on plans metal access hatch Type \_\_\_\_\_ [select: S-VM, NB-VM, L-VM, EW-VM], size [insert: width (\_\_\_\_\_) x length (\_\_\_\_\_)]. Length denotes hinge side. The access hatch shall be single leaf and pre-assembled from the manufacturer with the exception of the handles that will be supplied for field installation.
- B. Performance characteristics:
1. Cover shall be reinforced to support a minimum live load of 40 psf (195 kg/m<sup>2</sup>) with a maximum deflection of 1/150th of the span or 20 psf (97 kg/m<sup>2</sup>) wind uplift.
  2. Operation of the cover shall be smooth and easy with controlled operation throughout the entire arc of opening and closing.
  3. Operation of the cover shall not be affected by temperature.
  4. Entire hatch shall be weather tight with fully welded corner joints on cover and curb.
- C. Cover: Shall be 14 gauge (1.9mm) paint bond G-90 galvanized steel [or 11 gauge (2.3mm) aluminum] [or 14 gauge (1.9mm) type 304 stainless steel] with a 3" (76mm) beaded flange with formed reinforcing members. Cover shall have an EPDM rubber gasket adhered to the cover interior to assure a continuous seal when compressed to the top surface of the curb.
- D. Cover insulation: Shall be fiberglass of 1" (25mm) thickness, fully covered and protected by a 22 gauge (.8mm) paint bond G-90 galvanized steel [or 18 gauge (1mm) aluminum] [or 22 gauge (.8mm) type 304 stainless steel] metal liner.
- E. Curb: Shall be 4" (101mm) in height and of 14 gauge (1.9mm) paint bond G-90 galvanized steel [or 11 gauge (2.3mm) aluminum] [or 14 gauge (1.9mm) type 304 stainless steel]. The curb shall be formed with a 2-5/8" (67mm) mounting flange and 1-1/2" (38mm) apron, fully welded at the corners. Stainless steel anchor clips are included.
- F. Curb insulation: Shall be rigid fiberglass of 1" (25mm) thickness throughout curb.
- G. Lifting mechanisms: Manufacturer shall provide compression spring operators enclosed in self-lubricating telescopic tubes to provide, smooth, easy, and controlled cover operation throughout the entire arc of opening and closing. The upper tube shall be the outer tube to prevent accumulation of moisture, grit, and debris inside the lower tube assembly. The lower tube shall interlock with a flanged support shoe [for aluminum construction: welded to the curb assembly; for steel construction: through bolted to the curb assembly].
- H. Hardware
1. Heavy pintle hinges shall be provided.
  2. Cover shall be equipped with a spring latch with interior and exterior turn handles
  3. Roof hatch shall be equipped with interior and exterior padlock hasps.
  4. The latch strike shall be a stamped component bolted to the curb assembly.
  5. Cover shall automatically lock in the open position with a rigid hold open arm equipped with a 1" (25mm) diameter red vinyl grip handle to permit easy release for closing.

6. Compression spring tubes shall be an anti-corrosive composite material and all other hardware shall be zinc plated and chromate sealed. [For installation in highly corrosive environments or when prolonged exposure to hot water or steam is anticipated, specify Type 316 stainless steel hardware].
  7. Cover hardware shall be bolted into heavy gauge channel reinforcing welded to the underside of the cover and concealed within the insulation space.
- I. Finishes: Factory finish shall be alkyd based red oxide primed steel [or mill finish aluminum] [or sand blast stainless steel].

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates and openings for compliance with requirements for installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 INSTALLATION

- A. Install products in strict accordance with manufacturer's instructions and approved submittals. Locate units level, plumb, and in proper alignment with adjacent work.
1. Test units for proper function and adjust until proper operation is achieved.
  2. Repair finishes damaged during installation.
  3. Restore finishes so no evidence remains of corrective work.

#### 3.3 ADJUSTING AND CLEANING

- A. Clean exposed surfaces using methods acceptable to the manufacturer which will not damage finish.

END OF SECTION