BILCO Bil-Guard 2.0 fixed hatch railing system provides a permanent means of fall protection for roof hatch openings. System meets and exceeds OSHA fall protection regulations (29 CFR 1910.23). Bil-Guard® models are available for most roof hatch and automatic fire vent sizes. For more information, please visit our website www.bilco.com or call 1-800-366-6530.

SECTION 077233

ROOF HATCH RAIL SYSTEM

(BILCO TYPE BIL-GUARD 2.0)

PART 1 - GENERAL

SCHEDULE - SUMMARY

A.   Work Included: Provide factory-fabricated fixed hatch railing system.

SCHEDULE 1 - 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.

SCHEDULE 2 - 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 9001:2008 Quality Standards including in-house engineering for product design activities.

SCHEDULE 3 - DELIVERY, STORAGE AND HANDLING

A.   Deliver products in manufacturer's original packaging. Store materials in a dry, protected, well-vented 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.

SCHEDULE 4 - 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

SCHEDULE - MANUFACTURER

A. Basis-of-Design Manufacturer: Type Bil-Guard® 2.0 Roof Hatch Railing System by The BILCO Company, P.O. Box 1203, New Haven, CT 06505, 800-366-6530, Fax: 1-203-535-1582, Web: www.bilco.com.

SCHEDULE 1 - HATCH RAIL SYSTEM

A. Furnish and install where indicated on plans hatch rail system Model [insert RL2-S; RL2-NB; RL2-L; RL2-E; RL2-F, RL2-SS, RL2-D]. The hatch rail system shall be field assembled and installed (by others) per the manufacturer's instructions.

B. Performance characteristics:

1. High visibility safety yellow powder coat paint finish (*other colors available as a special order*).
2. Hatch rail system shall attach to the capflashing of the roof hatch and shall not penetrate any roofing material.
3. Hatch rail system shall satisfy the requirements of OSHA 29 CFR 1910.23 and shall meet OSHA strength requirements with a factor of safety of two.
4. Corrosion resistant construction with a five-year warranty.
5. Hinged gate shall ensure continuous barrier around the roof hatch.
6. Self-closing gate hinge and positive latching system provided with hatch rail system.

C. Posts and Rails: 1-1/4" (32mm) 6061 T6 schedule 40 aluminum pipe

D. Hardware: Mounting brackets shall be 3/8" (9mm) thick extruded aluminum. Pivoting post guides with compression fittings and latching mechanism shall be cast aluminum. Self-closing hinges and all fasteners shall be type 316 stainless steel.

PART 3 - EXECUTION

SCHEDULE - 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.

SCHEDULE 1 - 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.

SCHEDULE 2 - ADJUSTING AND CLEANING

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

END OF SECTION