

SPECIFICATIONS SECTION 077253

Roof Accessories - Security/Burglar Bars

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes:

1. Prefabricated security / burglar bars for building security
2. Prefabricated security / burglar bars for safety and fall-protection

B. Related Sections:

1. Section 07510 – Built-up Bituminous Roofing
2. Section 07525 – Modified Sheet Roofing.
3. Section 07360 – Single Ply Membrane Roofing
4. Section 07600 – Flashing and Sheet Metal Trim
5. Section 07610 – Sheet Metal Roofing

1.02 REFERENCES

A. Aluminum Association (AA)

1. Specifications for Aluminum Structures.

B. American Architectural Manufacturers Association (AAMA)

1. AAMA Skylight Installation Manual

C. American Society for Testing and Materials (ASTM)

1. ASTM A-463 Specification for Steel Cold Rolled.
2. ASTM A-653 Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc Alloy Coated by the Hot Dip process.
3. ASTM A 792 Specification for Steel Sheet, Hot Dip Process.

D. International Building Code (2016)

E. Federal OSHA Fall Protection Standard, OSHA Regulation (Standards – 29 CFR), Section 1910.23 – Guarding Floor and Wall Openings and Holes

F. California Code of Regulations, Title 8, Section 3212, Floor Openings, Floor Holes, Skylights and Roofs. Subchapter 7, Group 1, Article 2, dated July 1, 2016

G. National Roofing Contractors Association (NRCA)

1. Roofing and Waterproofing Manual.

H. American Welding Society (AWS)

1. AWS D1.1 Structural Welding Code

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1.03 PERFORMANCE REQUIREMENTS

- A. Security/Burglar bars shall conform to the Federal OSHA and CalOSHA standards and regulations.
- B. Security/Burglar bars shall be tested to an 800 lb/sq.ft impact load and certified by a third-party approved testing agency. Manufacturer's products supplied as an alternate to the specifications must provide a copy of the 800 lb/sq.ft impact test for review, prior to approval.
- C. Security/Burglar bars shall comply with the specific requirements of the Authority Having Jurisdiction (AHJ)
- D. Security/Burglar bars, when applicable, shall comply with the local codes and standards requirements for security/burglar bars including specific bar spacing outlined in the local standards.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Handle, deliver and store in manufacturer's original packaging, following the manufacturer's recommendations. Store in a secure area and in a manner to prevent damage.
- B. Exercise caution when hoisting unit to the roof so as not to scratch the painted finish or damage the bars

1.05 WARRANTY

- A. Security/Burglar Bar Warranty: Provide written warranty by the manufacturer, agreeing to repair or replace work that exhibits defects in materials or workmanship.
- B. Warranty period to be 10 years from date of installation.

PART 2 - PRODUCTS

2.01 Security/Burglar Bars

- A. Manufacturers: Subject to compliance with requirements. Approved manufacturers are:
 - 1. Skyco Skylights, 2995 Airway Ave, Suite B, Costa Mesa, CA 92626
(949 429-4090) www.skycoskylights.com
 - 2. Or Approved equal. (Prior approval shall be obtained 10 days prior to bid date and include submission of Third-party test reports)
- B. Manufactured units:
 - 1. Skyco Skylights Model Number SB-1, SB-2 or SB-3
 - 2. Bars to be 1/2" diameter solid steel bars continuously welded to a 1 1/2" x 1 1/2" x 1/8" solid steel angle frame.
 - 3. Bars shall be designed to be mounted to the top of a roof curb, top of the roof deck or to the underside of the roof deck, as required.
 - 4. Finish: Reflective white powder coat paint
 - 5. Inside curb dimension to be 48" x 96" or as shown on drawings.
 - 6. Custom sizes and bar spacing available and as noted on drawings.

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2.02 FABRICATION

- A. Fabricate free of visual distortions and defects. Welded joints at each bar connection to angle frame.
- B. All fasteners and hardware shall be corrosion resistant and designed for the applicable substrate onto which the bars will be mounted to.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install completely assembled security/burglar bars in accordance with manufacturer's instructions.
- B. Mount bars onto self-flashing metal curb, wood curbs, or roof deck.
 - 1. Set units in place and secure mounting flange to curbs or roof deck with non-corrosive screw fasteners, spaced in accordance with the pre-punched mounting hole.
- C. Apply bituminous paint on metal surfaces of units in contact with cementitious material and dissimilar metals.
- D. After installation, inspect the mounting and installation of the Security/Burglar bars to insure that the mounting is in accordance with the manufacturer's drawings and instructions.

END OF SECTION