Primary applications for Harden Security Louvers include government, industrial, commercial and residential properties where protection of people and property is of utmost concern and where forced entry and ballistic threats are present singularly or in combination; locations that require both ventilation and FE/BR protection, such as generator rooms and switching rooms; and where conformance to U.S. Department of State forced-entry and ballistic threat levels is required. For more information, please call our phone number above or visit our website.

The widespread acceptance and success of our products stem from Harden's test-proven designs and high level of manufacturing quality.

SECTION 089105

SECURITY LOUVERS

(HARDEN HL-2133 SERIES)

PART 1 - GENERAL

1.1 SUMMARY

A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:

1. Steel security louvers.

1.2 SUBMITTALS

A. Product Data: Submit manufacturer’s product data for each type of product.

B. Shop Drawings: Submit shop drawings including the following:

1. Complete list of materials and manufacturer’s descriptive and technical literature.
2. Proposed layout, details of construction and anchorage and relationship to other parts of the work.

C. Warranty: Submit executed copy of manufacturer’s standard limited warranty.

1.3 QUALITY ASSURANCE

A. Installer: Minimum 2-year documented history of installing similar louvers and acceptable to the manufacturer. Installer shall accept responsibility for all field verifications.

1.4 DELIVERY, STORAGE AND HANDLING

A. Store materials in a location protected from the weather, humidity, temperature variation, dirt and dust, or other contaminants.

1.5 WARRANTY

A. Warranty: Provide manufacturer’s standard limited warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Basis-of-Design Manufacturer: Harden Architectural Security Products, LLC, 31 Industrial Circle, Lancaster, PA 17601. 717-308-9227. www.hardensecure.com. No substitutions.

2.2 SECURITY LOUVERS

A. Security Louvers: HL-2133 Series Maximum Security Louvers by Harden Architectural Security Products, LLC complying with the following:

1. Performance: Forced-entry and ballistic tested per U.S. Department of State SD-STD-01.01 rev G (Amended). Certified as a 60 Minute Forced Entry/Ballistic-Resistant Louver by the U.S. Department of State.
2. Performance: Tested in accordance with UL 752 Level 8.
3. Construction: Steel perimeter T-frame; steel louver inserts.
4. Finish: Bare steel.
5. Finish: Hot-dip galvanized per ASTM A123.
6. Finish: Hot-dip galvanized per ASTM A123 with manufacturer's standard powder coat finish, color as selected.
7. Trim: Matching trim.
8. Trim: Stainless steel with No. 4 finish.
9. Trim: Aluminum with powder coat finish, color as selected.
10. Screens (Option): Interior insect screening.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and site conditions 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 security louvers level, plumb, and in proper alignment with adjacent work. Provide installation method suitable for substrate and project conditions:

1. Pre-drilled and tapped plate-type embeds cast into concrete.
2. Pre-drilled and tapped steel tube-type sub-frames bolted into the wall.
3. Pre-drilled and tapped steel tube-type sub-frames welded to the wall structure.

B. Protect adjacent areas against damage; repair or patch damaged areas. Restore damaged 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

REV 1123 SK