

DETENTION FIXED EXTERIOR WINDOWS

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DEMA 111950-09
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GUIDE SPECIFICATIONS FOR DETENTION FIXED EXTERIOR WINDOWS

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This standard was developed by representative members of the Detention Equipment Manufacturers Association (DEMA) a Division of the National Association of Architectural Metal Manufacturers (NAAMM) to provide their opinion and guidance on the specification and use of detention equipment. This standard contains advisory information only and is published as a public service by NAAMM and its DEMA Division.

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FORWARD

These specifications have been prepared in accordance with the CSI Section Format: Part 1 - General, Part 2 - Product and Part 3 – Execution. Guide specifications are intended to be used as the basis for developing job specifications and must be edited to fit specific job requirements. Inapplicable provisions shall be deleted, appropriate selections shall be made where there are choices, and provisions applicable to the job shall be added where necessary. Optional items or requirements are shown in brackets. **Notes and instructions to specifiers are given in italics directly following the paragraphs to which they apply. Notes that contain permissive language are not considered part of the standard.** Dates given with ASTM and other standards were current at the time this specification was published, and define the specific standards referenced herein. When a more recent standard is available, the specifier should verify its applicability to this guide prior to its inclusion. *While the CSI Section Format locates Delivery, Storage and Handling in Part 1, NAAMM Standard include them under Part 3 – Execution.*

Materials and fabrication methods are specified in detail in Part 2. Detention fixed exterior windows made in accordance with these specifications have successfully met the testing and performance requirements of Section 1.05. However, the materials and fabrication methods called for in these specifications, while providing a sound guide, are not meant to restrict the use of other materials and methods, where it can be demonstrated through the specific testing procedures in Section 1.05 that the construction can equal or exceed the performance levels specified in this section. In order to ensure that a manufacturer's product meets the desired performance levels, the project specifications shall include the testing and performance requirements of Section 1.05 and the Quality Assurance requirements of Section 1.06.

Security grades were added in response to input from members of the architectural community, particularly those who are regularly involved in the design of Detention and Correctional Facilities and are also involved in ASTM standard development efforts for these facilities. The four (4) security grade levels cited in the specification refer not only to the DEMA performance requirements for detention fixed exterior windows, but also to related ASTM standards that have been recently developed for detention products. These grade levels provide a quick reference to performance standards outside DEMA, which are coordinated with this DEMA specification and can be easily used when writing project specifications.

The CSI Master Format 2004 placed detention equipment in Section 11 19 00 and detention windows in 08 56 63. Specifiers can use either the old or new numbers in their contract documents to incorporate specifications for detention fixed exterior windows. **However, the Specifier shall not utilize both systems within the same set of construction documents.**

This standard indicates both CSI Section [11 19 00 (or 08 56 63)] for detention fixed exterior windows until all specifiers have switched to the new Format.

CSI SECTION 11 19 00 (or 08 56 63) DETENTION FIXED EXTERIOR WINDOWS

PART 1 - GENERAL

1.01 SUMMARY

This Section includes detention fixed exterior windows (single and multi-lite) as required to complete the work as shown on the contract drawings, schedules and as specified herein.

1.02 PRODUCTS PROVIDED UNDER THIS SECTION

- A. Detention fixed exterior [thermally broken] [bullet resistant] windows with [1 ½ hour] [3/4 hour] [1/3 hour] fire rating, as shown in the approved submittal drawings and specified herein.

1.03 RELATED SECTIONS

Section 11 19 00 - - - Basic Detention Equipment Requirements
Section 11 19 10 - - - Detention Hollow Metal
Section 11 19 30 - - - Detention Glass and Glazing
Section 11 19 45 - - - Detention Bar Grating - Wire Mesh
Section 11 19 46 - - - Detention Bar Grating – Expanded Metal
Section 11 19 70 - - - Detention Wall Systems
Section 11 19 80 - - - Detention Cells

1.04 REFERENCES

- A. ANSI A 250.10 – 1998, Standard Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames
- B. ANSI / NAAMM HMMA 801-98, Glossary of Terms for Hollow Metal Doors and Frames
- C. ANSI / NAAMM HMMA 866-01, Guide Specifications for Stainless Steel Hollow Metal Doors and Frames
- D. ANSI / NFPA 80-1999, Fire Doors and Windows
- E. ANSI / NFPA 257-2000, Methods for Fire Test of Window Assemblies
- F. ANSI / UL 9-2000, Fire Tests of Window Assemblies, 7th Edition
- G. ASTM A 627-03, Standard Test Methods for Tool-Resisting Steel Bars, Flats, and Shapes for Detention and Correctional Facilities
- H. ASTM A 653 / A 653M-04a, Specification for Steel Sheet, Zinc-coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot Dipped Process, (Commercial Steel)
- I. ASTM A 666-03, Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate and Flat Bar.
- J. ASTM A 1008 / A 1008M-04b, Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
- K. ASTM A 1011 / A 1011M-04a, Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
- L. ASTM C 143 / C 143M-03, Standard Test Method for Slump of Hydraulic Cement Concrete
- M. ASTM E 283-04, Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen