Purpose and Applications: This guide specification covers Andersen® hinged aluminum storm and screen doors manufactured by Emco Enterprises LLC, a wholly owned subsidiary of Andersen Corporation. Three separate product families are available; 10 Series, 8 Series and 6 Series Fullview Interchangeable and Fullview Retractable Screen storm doors. These storm doors are suitable for new construction, remodeling or replacement applications.

Product Features: These storm door products are made to exact specifications. They are available in a range of standard colors, in various shapes and sizes, with various venting, hardware and glass options.

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Contact Information: Contact manufacturer for more information on this or other products made by Emco Enterprises LLC, Andersen Service Center, 100 Fourth Ave North, Bayport, MN 55003-1096. Telephone: (855) 299-9029.

Website: <http://www.andersenwindows.com/stormdoors>

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Editor Note: Edit document to suit Project requirements and specifier practice. Specifier notes are shown in blue text like this. Optional text [**is shown in bold with brackets like this**]. Locations where language for Project-specific requirements is to be inserted are shown like this: <**insert language**>. Remove specifier notes and unused optional text in final version of the specification document.

Editor Note: The Construction Specifications Institute (CSI) recommends and supports use of its current MasterFormat section title and numbering system, shown below.

SECTION 08 11 63 – METAL SCREEN AND STORM DOORS AND FRAMES

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes: Hinged aluminum storm and screen doors.

Editor Note: Revise paragraph below to suit Project requirements. Add section numbers and titles according to CSI MasterFormat and specifier practice. This paragraph is intended for use only when a reader might reasonably expect to find work requirements in this Section, but those requirements are actually located in another, related section.

B. Related Sections: Section(s) related to this section include:

1. <**Insert Work Title**>: <**Insert Division number**> Section <**Insert Section title**>.

Editor Note: Standards numbers and titles in the article below are provided for specifier information and reference. The purpose of this Article is to fully identify standards that are referenced elsewhere using abbreviated nomenclature. Retain, edit or delete article to suit specifier practice and Project requirements.

1.2 REFERENCES

A. General: Standards listed by reference form a part of this specification section. Standards listed are identified by issuing authority, abbreviation, designation number, title or other designation. Standards subsequently referenced in this Section are referred to by issuing authority abbreviation and standard designation.

B. American Architectural Manufacturers Association (AAMA):

1. AAMA 1102 – Voluntary Specification for Side-Hinged Secondary Storm Doors.

2. AAMA 2603 – Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.

C. ASTM International (ASTM):

1. ASTM C1048 – Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.

2. ASTM E2190 – Standard Specification for Insulating Glass Unit Performance and Evaluation.

D. Emco Enterprises LLC: Unit Installation Guide.

E. Insulating Glass Certification Council (IGCC): Insulating Glass Unit Certification.

F. Insulating Glass Manufacturers Alliance of Canada (IGMAC) and Canadian General Standards Board (CGSB): Insulating Glass Units Standard CAN/CGSB 12.8-97.

G. International Standards Organization (ISO): ISO 14021 – Environmental Labels and Declarations – Self-Declared Environmental Claims (Type II Environmental Labeling).

H. National Fenestration Rating Council (NFRC):

1. NFRC 100 – Procedure for Determining Fenestration Product U-Factors.

2. NFRC 200 – Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.

1.3 ADMINISTRATIVE REQUIREMENTS

Editor Note: Retain paragraph below if pre-installation meetings are required and edit to suit Project requirements.

A. Pre-installation Meetings: Conduct pre-installation meeting to clarify Project requirements, substrate conditions, manufacturer’s installation instructions and manufacturer’s warranty requirements.

1.4 PERFORMANCE REQUIREMENTS

Editor Note: Project requirements in paragraph below might include but not be limited to design wind load, wind speed, maximum design deflection, importance factor, exposure category, performance class and grade.

A. Structural Performance Requirements:

1. Comply with requirements of NAFS.

2. <**Insert requirements**>.

Editor Note: Retain paragraph below if compliance with a whole-building rating system (such as USGBC LEED, GBI Green Globes, or other) or specific sustainability-related design and construction aspects is required. Edit to suit Project requirements. Project requirements might include but not be limited to energy performance, recycled material content, regional materials, and indoor air quality.

B. Environmental Performance Requirements: <**Insert requirements**>.

1.5 SUBMITTALS

A. Product Data: For each type of product required.

B. Shop Drawings: Showing methods of installation, plans, sections, elevations and details of walls, specified loads, flashings, sealants, and interfaces with all materials not supplied by the storm door manufacturer, and identification of proposed component parts and finishes.

C. Samples: Selection and verification samples for finishes, colors and textures. Submit two complete sample sets of each type of material required.

D. Certificates: Signed by manufacturer certifying materials comply with specified performance characteristics, criteria and physical requirements.

E. Test and Evaluation Reports: Showing compliance with specified performance characteristics and physical properties.

F. Manufacturer’s Instructions: Manufacturer installation, storage, and other instructions.

Editor Note: Retain paragraph below if compliance with a whole-building rating system (such as USGBC LEED, GBI Green Globes, or other) or specific sustainability-related design and construction aspects is required. Edit to suit Project requirements.

G. Sustainable Design Submittals in Compliance with ISO 14021.

H. Qualification Statements: For manufacturer and installer.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Member in good standing of the Insulating Glass Certification Council (IGCC).

2. Member in good standing of the U.S. Green Building Council.

3. U.S. ENERGY STAR Partner.

4. Capable of demonstrating an extended history of window and door design, production and innovation.

Editor Note: Retain when a separate installer warranty is required.

B. Installer Qualifications:

1. Minimum five years’ experience in the commercial installation of products required for the Project.

2. Experience on at least five projects of similar size, type and complexity as the Project.

3. An entity utilizing workers competent in techniques required by manufacturer for product types and applications indicated.

1.7 DELIVERY, STORAGE AND HANDLING

A. Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.

B. Deliver materials to Project in manufacturer’s original unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials and accessories protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by manufacturer off ground, under cover and not exposed to weather and construction activities.

1.8 WARRANTY

Editor Note: Coordinate article below with Conditions of the Contract and with Division 01 Closeout Submittals (Warranty) Section. Warranty period varies by product. Coordinate warranty period with product selection.

A. Special Warranty: Manufacturer's non-prorated limited warranty.

1. Warranty Period: Lifetime.

Editor Note: Retain paragraph below if a separate installation warranty, not provided by the manufacturer, is required and edit to suit Project requirements.

B. Special Warranty: Installer's standard form in which installer agrees to repair or replace storm doors that fail due to poor workmanship or faulty installation within the specified warranty period.

1. Warranty Period: <**Insert number of years**> years from date of Substantial Completion.

PART 2 PRODUCT

Editor Note: Add product features, performance characteristics, material standards, and descriptions as applicable. Use of terms such as "or equal" or "approved equal" or similar may cause ambiguity in specifications, requiring verification (procedural, legal and regulatory) and assignment of responsibility for the determination of "equal" products. Therefore, it is recommended that terms such as these be avoided.

2.1 MANUFACTURER

A. General: Provide hinged aluminum storm and screen doors complying with AAMA 1102 and the requirements indicated.

B. Basis-of-Design Product: Subject to compliance with requirements provide Andersen Corporation: Andersen [**10 Series**] [**8 Series**] [**6 Series**] storm and screen doors.

C. Substitution Limitations: [**No substitutions**] [**All other manufacturers: Submit substitution request in accordance with Section 01 25 00 - "Substitution Procedures"**] <**Insert substitution limitations**>.

Editor Note: Three separate articles are provided below; one for each of the three Andersen storm doors covered in this guide specification document. Coordinate applicable article with product selection and Project requirements.

Editor Note: Retain this article when Andersen 10 Series storm doors are required and edit to suit Project requirements.

2.2 STORM DOOR <**Insert storm door designation used on Drawings**>.

A. Type, 10 Series: [**Fixed Fullview**] [**Fullview Interchangeable**].

B. Glass:

Editor Note: Laminated glass option below is available only with fixed, fullview door.

1. Type: [**Single pane clear**] [**Single pane low-E**] [**Insulating clear, ASTM E2190**] [**Insulating low-E, ASTM E2190**] [**Laminated**], fully-tempered, ASTM C1048.

Editor Note: Values for thermal transmission, solar heat gain coefficient and visible light transmittance provided in sub-paragraphs below are based on the storm door’s glass component only. Coordinate requirements in subparagraphs below with glass type selection in subparagraph above.

2. Thermal Transmission (U-Factor), NFRC 100: [**Single pane clear,** **1.04**] [**Single pane low-E, 0.74**] [**Insulating clear, 0.211**] [**Insulating low-E, 0.211**] [**Laminated, 0.98**].

3. Solar Heat Gain Coefficient (SHGC), NFRC 200: [**Single pane clear,** **0.87**] [**Single pane low-E, 0.851**] [**Insulating clear, 0.78**] [**Insulating low-E, 0.266**] [**Laminated, 0.79**].

4. Visible Light Transmittance (VLT), NFRC 200: [**Single pane clear,** **0.90**] [**Single pane low-E, 0.91**] [**Insulating clear, 0.82**] [**Insulating low-E IS-30, 0.71**] [**Laminated, 0.88**].

C. Construction: Extruded aluminum with painted finish, AAMA 2603.

D. Color: [**Color as selected from manufacturer’s standard colors**] [**White**] [**Almond**] [**Sandtone**] [**Bronze**] [**Forest Green**] [**Terratone**] [**Black**] [**Cinnamon Toast**].

E. Size: [**30 inches wide**] [**32 inches wide**] [**34 inches wide**] [**36 inches wide**] [**As indicated on Drawings**].

F. Frame Style and Dimension: Decorative, 1-1/2 inches.

G. Weatherstrip: Double, fiber pile.

Editor Note: FlipAway handle option below does not apply to fixed fullview storm doors which are permanently installed in the door frame.

H. Handle: Traditional, [**FlipAway,** ] [**Oil-Rubbed Bronze**] [**Nickel**] [**Brass**].

I. Closer: Two pneumatic, color-matched, push-button at bottom, standard at top.

Editor Note: The three-point deadbolt option below applies only to fixed fullview door.

J. Lock: [**Re-keyable deadbolt**] [**Re-keyable deadbolt three-point**].

Editor Note: The no-screen option below applies only to fixed fullview door.

K. Insect Screen: [**Interchangeable glass panel** **with** **SplineLoc screen and quick-release system**] [**None**].

L. Door Sweep: Aluminum, color-matched to door.

Editor Note: Retain this article when Andersen 8 Series storm doors are required and edit to suit Project requirements.

2.3 STORM DOOR <**Insert storm door designation used on Drawings**>.

A. Type, 8 Series: [**Fullview Interchangeable**] [**Fullview** **Retractable Screen**].

B. Glass:

Editor Note: Glass type varies by venting configuration.

1. Type: [**Decorative, single pane clear**] [**Single pane clear**] [**Single pane Low-E**] fully-tempered, ASTM C1048.

Editor Note: Retain sub-paragraph below if Decorative glass is required and edit to suit Project requirements. Glass style varies by venting configuration. Etched is available only on the interchangeable fullview door.

2. Style: [**Straight Nickel**] [**Diamond Lights**] [**Clear**] [**Etched**] [**V-Groove**].

Editor Note: Values for thermal transmission, solar heat gain coefficient and visible light transmittance provided in sub-paragraphs below are based on the storm door’s glass component only. Coordinate requirements in subparagraphs below with glass type selection in subparagraph above.

3. Thermal Transmission (U-Factor), NFRC 100: [**Decorative single pane clear, 1.04**] [**Single pane clear,** **1.04**] [**Single pane low-E, 0.74**].

4. Solar Heat Gain Coefficient (SHGC), NFRC 200: [**Decorative single pane clear, 0.87**] [**Single pane clear,** **0.87**] [**Single pane low-E, 0.851**].

5. Visible Light Transmittance (VLT), NFRC 200: [**Decorative single pane clear, 0.90**] [**Single pane clear,** **0.90**] [**Single pane low-E IS-30, 0.91**].

C. Construction: Extruded aluminum with painted finish, AAMA 2603.

D. Color: [**Color as selected from manufacturer’s standard colors**] [**White**] [**Almond**] [**Sandtone**] [**Bronze**] [**Forest Green**] [**Terratone**] [**Black**] [**Cinnamon Toast**].

Editor Note: Size availability varies by product. Edit to suit Project requirements and coordinate with product selection.

E. Size: [**30 inches wide**] [**32 inches wide**] [**34 inches wide**] [**36 inches wide**] [**As indicated on Drawings**].

F. Frame Style and Dimension: Decorative, 1-1/2 inches thick.

G. Weatherstrip: Double, fiber pile.

H. Handle: Traditional, FlipAway, [**Oil-Rubbed Bronze**] [**Nickel**] [**Brass**].

Editor Note: Single option below applies only to single-vent doors.

I. Closer: Pneumatic, [**single color-matched push-button at bottom**] [**double, color-matched push-button at bottom, standard at top**].

J. Lock: Re-keyable deadbolt.

Editor Note: Screen availability varies with venting configuration.

K. Insect Screen: [**Interchangeable glass panel with insect screen**] [**Retractable insect screen**].

L. Door Sweep: Aluminum, color-matched to door.

Editor Note: Retain this article when Andersen 6 Series storm doors are required and edit to suit Project requirements.

2.4 STORM DOOR <**Insert storm door designation used on Drawings**>.

A. Type, 6 Series: [**Fullview Interchangeable**] [**Fullview** **Retractable Insect Screen**].

B. Glass:

Editor Note: Decorative glass type below applies only to interchangeable full-view door.

1. Type: [**Single pane clear**] [**Decorative, single pane clear**] [**Single pane Low-E**], fully-tempered, ASTM C1048.

Editor Note: Retain subparagraph below when decorative glass is required.

2. Style: Etched.

Editor Note: Values for thermal transmission, solar heat gain coefficient and visible light transmittance provided in sub-paragraphs below are based on the storm door’s glass component only. Coordinate requirements in subparagraphs below with glass type selection in subparagraph above.

3. Thermal Transmission (U-Factor), NFRC 100: [**Single pane clear,** **1.04**] [**Decorative single pane clear, 1.04**] [**Single pane low-E, 0.74**].

4. Solar Heat Gain Coefficient (SHGC), NFRC 200: [**Single pane clear,** **0.87**] [**Decorative single pane clear, 0.87**] [**Single pane low-E, 0.851**].

5. Visible Light Transmittance (VLT), NFRC 200: [**Single pane clear,** **0.90**] [**Decorative single pane clear,** **0.90**] [**Single pane low-E IS-30, 0.91**].

C. Construction: Extruded aluminum with painted finish, AAMA 2603.

D. Color: [**Color as selected from manufacturer’s standard colors**] [**White**] [**Almond**] [**Sandtone**] [**Bronze**] [**Forest Green**] [**Black**].

Editor Note: Size availability varies by product. Edit to suit Project requirements and coordinate with product selection.

E. Size: [**30 inches wide**] [**32 inches wide**] [**34 inches wide**] [**36 inches wide**] [**As indicated on Drawings**].

Editor Note: Decorative style below applies only to single-vent door. Bullnose applies only to interchangeable door.

F. Frame Style and Dimension: [**Decorative 1-1/4 inches thick**] [**Bullnose 1-1/4 inches thick**].

G. Weatherstrip: Single, fiber pile.

H. Handle: Classic, FlipAway, [**Nickel**] [**Brass**].

I. Closer: Single pneumatic color-matched push-button at bottom.

J. Lock: Re-keyable deadbolt.

Editor Note: Screen availability varies with venting configuration.

K. Insect Screen: [**Interchangeable glass panel with insect screen**] [**Retractable insect screen**].

L. Door Sweep: Aluminum, color-matched to door.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that all substrate conditions are suitable for installation in compliance with manufacturer’s recommendations.

B. Do not begin installation until substrates have been properly prepared and any conditions not in compliance with manufacturer’s recommendations have been corrected.

3.2 INSTALLATION

A. General: Comply with manufacturer’s product recommendations, including but not limited to the Andersen Unit Installation Guide, installation information in product literature and on product packaging. Comply with Drawings [**and Shop Drawings**] for installing storm doors, hardware, accessories, and other components.

B. Install storm doors plumb, level and square. Anchor doors securely to structure in correct orientation to flashing and adjacent construction as indicated. Comply with product installation instructions for proper flashing integration into wall system. Install doors so as to drain water penetration to the exterior.

C. Adjust storm door, insect screens, hardware and accessories as applicable for correct fit. Adjust weatherstrip for smooth operation and weathertight closure.

3.3 FIELD QUALITY CONTROL

A. Manufacturer’s Field Services: If requested by Owner, provide manufacturer’s field service consisting of product use recommendations and periodic site visits for observation of product installation in accordance with manufacturer’s recommendations.

1. Site Visits: <**Insert site visit requirements**>.

3.4 CLEANING

A. Remove protective films and non-permanent labels prior to 90 days after installation.

B. Remove excess sealant, soiling, dirt and other substances. Clean storm door frame and glass surfaces. Avoid damaging coatings and finishes.

C. Touch-up, repair or replace glass or other storm door components broken, scratched or damaged during construction prior to Substantial Completion.

D. Remove and lawfully dispose of construction debris from Project site.

3.5 PROTECTION

A. Protect installed storm doors and finish surfaces from damage during construction until completion of Project and acceptance by Owner.

(END OF SECTION 08 11 63 – METAL SCREEN AND STORM DOORS AND FRAMES)