

The Genuine. The Original.



SECTION 08 36 13

RESIDENTIAL OVERHEAD DOORS
THERMACORE 5745/5765 SERIES WIND LOAD

Display hidden notes to specifier. (Don't know how? [Click Here](#))
Copyright 2010 - 2014 ARCAT, Inc. - All rights reserved

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Residential Metal Overhead Doors.

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete. Execution requirements for placement of anchors in concrete wall construction.
- B. Section 04 22 00.16 - Surface-Bonded Concrete Unit Masonry. Execution requirements for placement of anchors in masonry wall construction.
- C. Section 05 50 00 - Metal Fabrications.
- D. Section 06 10 00 - Rough Carpentry.
- E. Section 07 90 00 - Joint Protection.
- F. Section 08 71 53 - Security Door Hardware.
- G. Section 09 90 00 - Painting and Coating.
- H. Section 27 05 39 - Surface Raceways for Communications Systems.
- I. Section 26 05 00 - Common Work Results for Electrical.

1.3 REFERENCES

- A. ANSI/DASMA 108 - Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference
- B. UL: Underwriters Laboratories, Inc.
- C. ULC: Underwriters Laboratories of Canada.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. Wind Loads: Design and size components to withstand loads caused by pressure and suction of wind acting normal to plane of wall as calculated in accordance with applicable code.
 - 1. Design pressure of _____ lb/sq ft (_____ kPa).
- B. Wiring Connections: Requirements for electrical characteristics.
 - 1. 115 volts, single phase, 60 Hz.
- C. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.
- D. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Indicate plans and elevations including opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- G. Operation and Maintenance Data.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.
- B. Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience.
- C. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened labeled packaging until ready for installation.

- B. Protect materials from exposure to moisture until ready for installation.
- C. Store materials in a dry, ventilated weathertight location.
- D. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.8 WARRANTY

- A. Provide manufacturers product warranty as follows:
 1. Thermacore 5745 Series. Warranty: Limited lifetime against splitting and cracking, 10 year against delamination of polyurethane foam from steel face, 2 years against peeling or fading of finish on Product sections with Walnut or Golden Oak wood grain finish, and all other components for 1 year.
 2. Thermacore 5765 Series. Warranty: Limited lifetime against splitting and cracking, 10 year against delamination of polyurethane foam from steel face, 2 years against peeling or fading of finish on Product sections with Walnut or Golden Oak wood grain finish, and all other components for 1 year.
 - 3.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Overhead Door Corporation, which is located at: 2501 S. State Hwy. 121 Suite 200; Lewisville, TX 75067; Toll Free Tel: 800-929-3667; Tel: 469-549-7100; Fax: 972-906-1499; Email: arcata@overheaddoor.com; Web: www.overheaddoor.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 RESIDENTIAL METAL OVERHEAD DOORS

- A. Insulated Steel Sectional Overhead Doors: Thermacore 5745 Series Windstorm Wind Load-Rated Insulated Steel Doors by Overhead Door Corporation.
 1. Door Assembly: Rigid steel fully insulated construction with a metal foam metal sandwich panel. Fabricated with EPDM seals between sections.
 - a. Size: As indicated on the Drawings.
 - b. Panel Thickness: 1-3/8 inches (34.93 mm).
 - c. Panel Style: Tongue-and-groove panels.
 - 1) Classic Raised Panel (short panel), Model 901.
 - 2) Contemporary flush panel, Model 905.
 - 3) Long panel, Model 902.
 - 4) V10 panel, Model 904.
 - 5) V5 panel, Model 903.
 - d. Exterior Steel: .012 inch (.030 mm) nominal, high strength hot dipped galvanized steel with an embossed wood grain texture.
 - e. Insulation: CFC-free foamed in place polyurethane.
 - f. Thermal Values: R-value of 12.12. U-Factor of < 0.37 (exceeds 2015 IECC climate zone requirements for maximum U-Factor of Operable fenestrations, section C402.4).
 - g. Air Infiltration: < 0.40 (meet 2015 IECC Section C402.5.2 for Garage Doors).

- h. Windload Design: Provide to meet the Design/Performance requirements specified.
- i. Window Design:
 - 1) Window Location:
 - a) Top section.
 - b) Second from top section.
 - 2) Decorative Window Style:
 - a) Full Vision (Short panel).
 - b) Full Vision (Long panel).
 - c) Arched Stockton - single design (V10 panel).
 - d) Arched Stockton - double design (V10 panel).
 - e) Arched Stockton - single design (Flush panel).
 - f) Arched Stockton - double design (Flush panel).
 - g) Arched Stockton 4 - single design (V10 panel).
 - h) Arched Stockton 4 - double design (V10 panel).
 - i) Ashton 4 (V10 panel).
 - j) Cascade 1 (Short panel).
 - k) Cascade 2 (Long panel).
 - l) Cascade 3 (V5 panel).
 - m) Cascade 3 (Flush panel).
 - n) Cascade 4 (V10 panel).
 - o) Cathedral 1 (Short panel).
 - p) Cathedral 2 (Long panel).
 - q) Cathedral 4 (V10 panel).
 - r) Prairie 1 (Short panel).
 - s) Prairie 2 (Long panel).
 - t) Ruston 4 (V10 panel).
 - u) Sherwood 1 (Short panel).
 - v) Sherwood 2 (Long panel).
 - w) Sherwood 4 (V10 panel).
 - x) Stockbridge (V5 panel).
 - y) Stockbridge (Flush panel).
 - z) Stockbridge 4 - 3 lite (V10 panel).
 - aa) Stockbridge 4 - 4 lite (V10 panel).
 - bb) Stockford 4 (V10 panel).
 - cc) Stockton 1 (Short panel).
 - dd) Stockton 2 (Long panel).
 - ee) Stockton 3 (V5 panel).
 - ff) Stockton 3 (Flush panel).
 - gg) Stockton 4 - 4-lite (V10 panel).
 - hh) Stockton 4 - 6-lite (V10 panel).
 - ii) Stockton 4 - 8-lite (V10 panel).
 - jj) Stockton 4 - 8-lite Arch (V10 panel).
 - kk) Stockton 4 - 12-lite Arch (V10 panel).
 - ll) Waterton 1 (Short panel).
 - mm) Waterton 2 (Long panel).
 - nn) Waterton 3 - (V5 panel).
 - oo) Waterton 3 - (Flush panel).
 - pp) Waterton 4 - (V10 panel).
 - qq) Williamsburg 1 - single or double design (Short panel).
 - rr) Williamsburg 2 - single or double design (Long panel).
 - ss) Williamsburg 4 - (V10 panel).
 - tt) Williamsburg 4 - 4 piece (V10 panel).
 - uu) Wynbridge 4 - single or double design (V10 panel).
 - 3) Glass Type:
 - a) Glass: Clear.

- b) Glass: Clear Insulated.
 - c) Glass: Clear Polycarbonate Impact.
- 2. Finish/Color: Two coat baked-on polyester. Color as follows:
 - a. White.
 - b. Brown.
 - c. Almond.
 - d. Taupe.
 - e. Wood Grain Golden Oak Finish (V5 panel).
 - f. Wood Grain Golden Oak Finish (V10 panel).
 - g. Wood Grain Walnut Finish (V5 panel).
 - h. Wood Grain Walnut Finish (V10 panel).
 - i. Wood Grain Mission Oak Finish (V5 panel).
 - j. Wood Grain Mission Oak Finish (V10 panel).
 - k. Black
- 3. Hardware: Standard hinges.
- 4. Lock:
 - a. Interior mounted slide lock.
 - b. Optional keyed lock.
- 5. Bottom fixture: DASMA 103 red-head fasteners.
- 6. Weatherstripping: Co-extruded EPDM bulb-type strip at bottom.
- 7. Track: Provide track as recommended by manufacturer to suit loading required and clearances available.
- 8. Standard rollers.
- 9. Manual Operation.
- 10. Electric Openers.

B. Insulated Steel Sectional Overhead Doors: Thermacore 5765 Series Windstorm Wind Load-Rated Insulated Steel Doors by Overhead Door Corporation.

- 1. Door Assembly: Rigid steel fully insulated construction with a metal foam metal sandwich panel. Fabricated with EPDM seals between sections.
 - a. Size: As indicated on the Drawings.
 - b. Panel Thickness: 2 inches (51 mm) nominal.
 - c. Panel Style: Tongue-and-groove panels.
 - 1) Classic Raised Panel (short panel), Model 906.
 - 2) Contemporary flush panel, Model 909.
 - 3) Long panel, Model 907.
 - 4) V5 panel, Model 908.
 - d. Exterior Steel: .012 inch (.030 mm) nominal, high strength hot dipped galvanized steel with an embossed wood grain texture.
 - e. Insulation: CFC-free foamed in place polyurethane.
 - f. Thermal Values: R-value of 16.22. U-Factor of < 0.37 (exceeds 2015 IECC climate zone requirements for maximum U-Factor of Operable fenestrations, section C402.4).
 - g. Air Infiltration: < 0.40 (exceeds 2015 IECC Section C402.5.2 for Garage Doors).
 - h. Windload Design: Provide to meet the Design/Performance requirements specified.
 - i. Window Design:
 - 1) Window Location:
 - a) Top section.
 - b) Second from top section.
 - 2) Decorative Window Style:
 - a) Full Vision (Short panel).
 - b) Full Vision (Long panel).
 - c) Arched Stockton - single design (Flush panel).
 - d) Arched Stockton - double design (Flush panel).

- e) Arched Stockton - single design (V5 panel).
 - f) Arched Stockton - double design (V5 panel).
 - g) Cascade 1 (Short panel).
 - h) Cascade 2 (Long panel).
 - i) Cascade 3 (V5 panel).
 - j) Cascade 3 (Flush panel).
 - k) Cathedral 1 (Short panel).
 - l) Cathedral 2 (Long panel).
 - m) Prairie 1 (Short panel).
 - n) Prairie 2 (Long panel).
 - o) Sherwood 1 (Short panel).
 - p) Sherwood 2 (Long panel).
 - q) Stockbridge (V5 panel).
 - r) Stockbridge (Flush panel).
 - s) Stockton 1 (Short panel).
 - t) Stockton 2 (Long panel).
 - u) Stockton 3 (V5 panel).
 - v) Stockton 3 (Flush panel).
 - w) Waterton 1 (Short panel).
 - x) Waterton 2 (Long panel).
 - y) Waterton 3 - (V5 panel).
 - z) Waterton 3 - (Flush panel).
 - aa) Williamsburg 1 - single design (Short panel).
 - bb) Williamsburg 1 - double design (Short panel).
 - cc) Williamsburg 2 - single design (Long panel).
 - dd) Williamsburg 2 - double design (Long panel).
- 3) Glass Type:
- a) Glass: Clear.
 - b) Glass: Clear Insulated.
 - c) Glass: Clear Polycarbonate Impact.
2. Finish/Color: Two coat baked-on polyester. Color as follows:
- a. White.
 - b. Brown.
 - c. Almond.
 - d. Taupe.
 - e. Wood Grain Golden Oak Finish (V5 panel).
 - f. Wood Grain Walnut Finish (V5 panel).
 - g. Wood Grain Mission Oak Finish (V5 panel).
 - h. Black
3. Hardware: Standard hinges.
4. Lock:
- a. Interior mounted slide lock.
 - b. Optional keyed lock.
5. Bottom fixture: DASMA 103 red-head fasteners.
6. Weatherstripping: Co-extruded EPDM bulb-type strip at bottom.
7. Track: Provide track as recommended by manufacturer to suit loading required and clearances available.
8. Standard rollers.
9. Manual Operation.
10. Electric Openers.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until openings and substrates have been properly prepared.

- B. Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.
- C. Verify electric power is available and of correct characteristics.
- D. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install overhead doors, track and openers in accordance with approved shop drawings and the manufacturer's printed instructions.
- B. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- C. Anchor assembly to wall construction and building framing without distortion or stress.
- D. Securely brace door tracks suspended from structure. Secure tracks to structural members only.
- E. Fit and align door assembly including hardware.
- F. Coordinate installation of electrical service with Section 16150.

3.4 CLEANING AND ADJUSTING

- A. Adjust door assembly to smooth operation and in full contact with weatherstripping.
- B. Clean doors, frames and glass.
- C. Remove temporary labels and visible markings.

3.5 PROTECTION

- A. Do not permit construction traffic through overhead door openings after adjustment and cleaning.
- B. Protect installed products until completion of project.
- C. Touch-up, damaged coatings and finishes and repair minor damage before Substantial Completion.

END OF SECTION