



Series 200/350/500 Door Specifications

PRODUCT DESCRIPTION: Leed / Himmel Entrance System is a 1 3/4" thick, tubular aluminum door with welded corners and applied glass stops. Door stile widths are offered at 2 1/8", 3 1/2", and 5". All entrances can be glazed with 1/4", 3/8", and 1" glass as well as laminated panel infill systems.

Section 08400 ALUMINUM ENTRANCE SYSTEMS

PART 1 - GENERAL

1.01 Work Included (scope of work)

A. FURNISH AND INSTALL ARCHITECTURAL ALUMINUM ENTRANCE SYSTEM WITH RELATED HARDWARE, FRAMING AND FLASHING SYSTEMS AS SHOWN ON DRAWINGS AND SPECIFIED HERE IN.

B. Entrance shall be LEED\HIMMEL Series 200 Narrow Stile, 350 Medium Stile, or 500 Wide Stile Doors with standard 1 3/4" by 4 1/2" aluminum tube framing system Series 1500. Other manufacturers requesting approval to bid their products as an equal, must submit the following data 15 days to the close of bidding;

-Substitutes must provide detailed product information in compliance to this specification.

1.02 Related Work

Refer to section 05500, 07600, 08900, 08700
STRUCTURAL SUPPORT SYSTEM
WOOD FRAMING
FINAL CLEANING

1.03 Quality Assurance

FOR THE PURPOSE OF DESIGNATING TYPE AND QUALITY FOR THE WORK IN THIS SECTION, DRAWINGS AND SPECIFICATIONS ARE BASED ON Leed / Himmel Ind. Series 200, 350, and 500 Entrance Systems.

1.04 Submittals

SHOP DRAWINGS: (When Required)

[] COPIES OF ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECTURAL APPROVAL. DRAWINGS SHALL SHOW SCALE ELEVATIONS AND SECTIONS. HALF SIZE STANDARD DETAILS AND FULL SIZE DETAILS WHEN DEEMED NECESSARY TO CLARIFY SPECIAL DESIGN CONDITIONS. DRAWINGS SHALL SHOW CONSTRUCTION OF ALL PARTS OF THE WORK, INCLUDING METAL AND GLASS THICKNESS, METHOD OF JOINERY, DETAIL OF ALL FIELD CONNECTIONS, AND ANCHORAGE. FASTENERS AND FINISHES MUST BE CLEARLY IDENTIFIED ALONG WITH ALL OTHER PERTINENT INFORMATION DEEMED NECESSARY IN ORDER TO PROVIDE FOR A PROPER INSTALLATION. NO WORK SHALL BE FABRICATED UNTIL SHOP DRAWINGS

HAVE BEEN APPROVED BY THE ARCHITECT AND FIELD DIMENSIONS HAVE BEEN CONFIRMED BY THE INSTALLING CONTRACTOR.

1.05 Delivery, Storage, and Handling

FOR GENERAL CONTRACTOR TO PROVIDE ADEQUATE AND SECURED STORAGE AREA ADJACENT TO THE BUILDING STORAGE OF FABRICATED CURTAIN WALL COMPONENTS. INSTALLER IS TO ENSURE THAT ALL STORED MATERIALS PROTECTED FROM DAMAGE AND MOISTURE.

1.06 Warranties

A. Total Storefront System:

1. THE RESPONSIBLE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND WARRANT FOR ONE YEAR THE SATISFACTORY PERFORMANCE OF THE TOTAL STOREFRONT INSTALLATION. THIS INCLUDES THE GLASS, GLAZING, ANCHORAGE, SETTING SYSTEM, SEALS, AND FLASHING AS THEY RELATE TO THE AIR, WATER, AND STRUCTURAL REQUIREMENTS AS STATED IN THIS SPECIFICATION AND AS NOTED ON THE APPROVED SHOP DRAWINGS.
2. ANY DEFICIENCIES DUE TO SUCH ELEMENTS NOT MEETING THE SPECIFICATIONS SHALL BE CORRECTED BY THE RESPONSIBLE CONTRACTOR AT HIS EXPENSE DURING THE WARRANTY PERIOD.

PART 2 - PRODUCTS

2.01 Materials

A. ALUMINUM

EXTRUDED ALUMINUM SHALL BE 6063-T5 OR T6 ALLOW AND TEMPERED AS REQUIRED.

B. GLASS AND GLAZING

THE ENTRANCE SYSTEM SHALL BE AVAILABLE WITH 1/4", 3/8", 1/2", AND 1" GLAZING STOPS. REFER TO SECTION 08800.

C. Fasteners

ALL EXPOSED FASTENERS ARE TO BE 316 STAINLESS STEEL.

2.02 Fabrication

A. General

ALL MAIN DOOR STILE AND RAILS SHALL HAVE A MINIMUM WALL THICKNESS OF .125", SECONDARY GLASS AND DOOR STOP EXTRUSIONS SHALL BE A MINIMUM OF .060".

B. Entrance Doors

1. Door stiles and rails shall have hairline joints at the corners. Heavy gauge extruded aluminum corner shear blocks shall be welded to the stiles. Top and bottom rails are to be machined for a tight fit and in turn welded to the shear block and the door stiles at both ends. The weld is to be located so that no adverse effect can be seen of the finished product. All doors are to have a non metallic adjusting screw located in the top rail to allow for clearance adjustments during installation.

2. Door glazing stops shall be snap in type with elastomeric gasket.

C. Framing

Door framing system is to consist of heavy wall extruded aluminum tube framing with hardware reinforcing provisions and appropriate weather-stripped door stops.

2.03 Finish Assurance

ALL FINISHES, WHETHER ANODIC OR ORGANIC, ARE TO BE FACTORY APPLIED BY THE STOREFRONT MANUFACTURER'S IN HOUSE, EPA APPROVED FINISHING FACILITIES.

2.04 Finishes

A. Anodic

FINISHES ALL EXPOSED AREAS OF ALUM. ENTRANCE AND STOREFRONT COMPONENTS WITH ELECTRICALLY DEPOSITED COLOR IN ACCORDANCE WITH ALUM. ASSOC. DESIGNATION AA- [____], COLOR TO BE [____]. ((AVAILABLE COLORS ARE CLEAR, CHAMPAGNE, LIGHT, MED. AND DARK BRONZE, AND BLACK (AA-M12-C22_A31 CLEAR ANODIZED))

B. Organic

FINISH ALL EXPOSED AREAS OF ALUM. ENTRANCE AND STOREFRONT WITH [____], COLOR IS TO BE [____]. BOTH HIGH PERFORMANCE POWER COAT BY TIGER DRY-LAC AND KYMAR BASED FINISHES AS MANUFACTURED BY PPG INDUSTRIES ARE AVAILABLE (US _____ XL SILVER METALLIC).

2.05 Hardware

A. HARDWARE FOR ALUMINUM ENTRANCES SHALL BE FURNISHED AND INSTALLED BY THE DOOR MANUFACTURER, AND SHALL INCLUDE THE FOLLOWING STANDARD Leed / Kimmel ITEMS:

1. Hinges/Pivots
 - a) 4 1/2 butt hinges
 - b) Offset pivots
 - c) Intermediate pivots on doors over 7' tall
 - d) Center pivots

2. Closers

- a) Surface mounted
- b) Single acting concealed overhead closer
- c) Double acting concealed overhead closer
- d) Floor closers

4. Panic Devices

- a) Concealed Vertical Rod
- b) Rim Device
- c) Removable Mullion

5. Push/Pull Hardware

- a) Leed / Kimmel standard design
- b) Custom Systems

6. Threshold

- a) 5" Extruded aluminum

7. Miscellaneous Hardware Items (specifications)

2.06 Alternate Hardware

HARDWARE FOR ALUMINUM ENTRANCES CAN BE SPECIFIED IN A SEPARATE SPECIFICATION FOR TYPICAL PROJECT HARDWARE FOR ALL DOORS TO BE SUPPLIED BY ONE SOURCE. IN THESE CASES HARDWARE MUST BE SUPPLIED ALONG WITH TEMPLATES TO THE DOOR MANUFACTURER. THE FINISH HARDWARE SUPPLIER SHALL BE RESPONSIBLE FOR THE PROPER SELECTION OF HARDWARE AS IT RELATES TO THE TYPE OF DOOR STILE BEING INSTALLED INTO. FURTHER, IT IS THE RESPONSIBILITY OF THE HARDWARE SUPPLIER TO COORDINATE THE DELIVERY OF THE APPROVED HARDWARE TO THE DOOR MANUFACTURER.

PART 3 - INSPECTION

3.03 Inspection

A. Job Conditions

ALL OPENINGS SHALL BE PREPARED BY OTHERS TO THE PROPER SIZE AND SHALL BE PLUMB, LEVEL, AND IN THE PROPER LOCATION AND ALIGNMENT AS SHOWN ON THE ARCHITECTURAL DRAWINGS. PROVIDE A SOLID ANCHORING SURFACE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND COORDINATE PROPER ANCHOR LOCATION WITH STRUCTURAL DRAWINGS.

3.02 Installation

- A. The entrance framing shall be securely installed according to the manufacturer's recommendations and the approved shop drawings.
- B. All joints between framing and the building structure shall be sealed in order to secure a weather tight installation.
- C. All operating hardware shall be checked for proper operation and field adjusted as deemed necessary by the installer.

3.03 Protection and Cleaning

THE GENERAL CONTRACTOR SHALL PROTECT THE ALUMINUM ENTRANCE/STOREFRONT MATERIAL AND FINISH AGAINST DAMAGE FROM THE CONSTRUCTION

