

THINLINE SERIES GLAZING

SECTION 08 41 13

ALUMINUM FRAMED ENTRANCES AND STOREFRONTS SPECIFICATION

PART 1 GENERAL

1.1 SECTION INCLUDES:

- A. Demountable glazing system
- B. Glass and glazing

1.2 RELATED SECTIONS

- A. Section 08 32 00 – Sliding Glass Doors
- B. Section 08 71 00 – Door Hardware
- C. Section 08 80 00 – Glazing
- D. Section 09 22 16 – Non-structural Metal Framing.
- E. Section 09 29 00 – Gypsum Board
- F. Section 09 51 00 – Acoustical Ceilings
- G. Section 09 68 00 – Carpeting
- H. Section 10 22 19 – Demountable Movable Partitions

1.3 REFERENCED STANDARDS

- A. AA: Aluminum Association.
 - 1. AA DAF-45 (2003): Designation System for Aluminum Finishes.
- B. AAMA: American Architectural Manufacturers Association.
 - 1. AAMA 611-98: Voluntary Specification for Anodized Architectural Aluminum
 - 2. AAMA 2603-02 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
- C. Americans with Disabilities Act (ADA).
- D. ANSI: American National Standards Institute
 - 1. ANSI/BIFMA X5.6L: American National Standard for Office Furnishings – Panel Systems Tests.
- E. ASTM International.
 - 1. ASTM B221-08: Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 2. ASTM E90-09: Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
 - 3. ASTM E413-04: Classification for Rating Sound Insulation.
- F. AWI: Quality Standards.
- G. OSHA: Nationally Recognized Testing Laboratory (NRTL) Program.
- H. UL: Approval Listings.

1.4 SYSTEM DESCRIPTION

- A. Aluminum Glazing System:
 - 1. A 1 ¾" (44mm) thick, full-height glazing system for interior use, designed to permit relocation, reconfiguration, and reuse of parts.

2. Erected and disassembled in a manner preventing damage to floors, walls, columns and window mullions.
3. Sliding glass doors use aluminum frames and door hardware that is attached to the frame or ceiling bulkhead and not the floor.
4. Adjustment shall be capable by way of leveling feet located near each panel bottom edge. System is capable of accommodating floor to ceiling variations of $\pm 10\text{mm}$ from design height, for a total adjustment height allowance of 20mm.

1.5 SUBMITTALS

- A. Submit under the provisions of Section 01 33 00.
- B. Product Data: Manufacturer's fabrication and installation instructions.
- C. Shop Drawings: Confirm layouts shown on the plan and elevation.
- D. Selection Samples: Provide 2" x 4" (51mm x 102mm) aluminum chips in full range manufacturer's standard finishes for Architect's colour selection.
- E. Provide Manufacturer's Installation Instructions.

1.6 QUALITY ASSURANCE

- A. Installation will be performed by manufacturer's personnel or by others authorized by partition system manufacturer.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Do not begin installation until site conditions provide protection from weather and outside elements, and environmental conditions within the building are approximately equivalent to those that will exist after the installation.
- B. Maintain temperature and humidity in areas of installation within reasonable limits, as close as possible to final occupancy standards. If necessary, provide artificial heating, cooling and ventilation to maintain required environmental conditions.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Contract documents are based on the Thinline Glazing Series as manufactured by **PSL Partition Systems Ltd.**

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Website: www.partitions.com

- B. Substitutions: Products by other manufacturers require prior approval under provisions of Section 01 60 00.
- 2.2. COMPONENTS / MATERIALS
- A. ALUMINUM EXTRUSIONS: Aluminum Association alloy 6063-T54 (ASTM B221) aluminum alloy suited to the application.
 - B. GLASS: To be as specified.
 - C. GLAZING BEAD: To be a co-extruded flexible seal.
 - D. GLAZING STOP: To be snap-locking in aluminum to suit.
- 2.3. FABRICATION
- A. Glazing frames
 - 1. Aluminum extrusions fastened together forming a rigid frame
- 2.4. FINISHES
- A. Factory finished extruded frame components such that any part exposed to view upon completion of installation will be uniform in finish and color.
 - 1. Painted finish:
 - i. Standard Architectural Quality: Comply with AAMA 2603-02.
 - 2. Clear Anodized Coating:
 - i. Architectural Class II: Comply with AAMA 611-02, AA-M12C22A31, 10 microns (0.4 mil) thickness minimum.
 - 3. Colour Anodized Coatings:
 - i. Architectural Class I: Comply with AAMA 611-02, AA-M12C22A44, 18 microns (0.7 mil) thickness minimum (Optional).
 - 1. Black
 - 2. Light Bronze
 - 3. Medium Bronze
 - 4. Dark Bronze
 - 5. Champagne

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine project conditions and take site measurements of existing building to verify that the work of this section may commence properly. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install partition system in accordance with manufacturer's instructions.
- B. Install and secure ceiling runner to existing ceiling, ensuring it is continuously level.
- C. Set frames into ceiling header and floor track.
- D. Set frames plumb, level and straight, flush to ceiling runner. Adjust as required.
- E. Set doors, windows and panel trims.

3.3 ADJUSTING AND CLEANING

- A. Clean exposed frames promptly after installation, using cleaning methods recommended by frame manufacturer.
- B. Touch up marred areas so that touch-up is not visible from a distance of 4 feet. Remove and replace frames that cannot be satisfactorily adjusted.
- C. Replace damaged components with new to match.
- D. Adjust doors to operate smoothly.