SECTION B1
SERIES 450 STOREFRONT SYSTEM
1\(\frac{3}{4}\)" X 4\(\frac{1}{2}\)" for 1/4" GLAZING
SECTION B1
SERIES CF450 STOREFRONT SYSTEM
1¾" X 4½" FOR ¼" GLAZING

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Series CF450 Features:

Series CF450 is a commercial flush glazed system for exterior glazing ground floor applications or interior glazing when used as a low rise window wall system. The system is designed for the vertical mullions and filler plates to run through for optimum strength. All Cardinal Commercial Products framing is mechanically jointed using self-tapping screws into integral splines extruded within the body of the section. Jointing is by butt joints with applied sealant to protect against water egress and to reduce air infiltration.

System features:

► Sightline 1¾” x 4½” for ¼” glazing infill
► EPDM glazing gaskets
► Shop fabrication using punch die tooling for precision screw spline hole locations.
► Shop supervision and quality control
► Ladder assembly for transportation to job site for quicker installation
► Heavy duty mullions and/or steel reinforcement to meet high wind velocity requirements and high spans.
► Sill receptor allows for head of structural fasteners in subsill to be sealed prior to installing ladder panels
► Framing accepts Series 200, 300 and 500 entrance doors

Full height ABS plastic molded end dams to keep infiltrated water contained within subsill receptor where it is weeped to exterior through weep holes backed with baffles.
SYSTEM FEATURES

Weep Holes backed with 30 ppi polyester baffles

WD450 ABS Plastic Molded Water Diverters

Glass not shown for clarity.

Weep Hole

Full height subsill receptor eliminates blind seals where structural fasteners penetrate subsill.
SERIES CF450 13/4” x 41/2” - B1

STANDARD FRAMING DETAILS

KEY ELEVATION

1 2 2 2 1A

FRAME WIDTH

MASONRY OPENING

1/4” 1/4” 1/4” 1/4” 1/4”

FRAME HEIGHT

MULLION LENGTH

EXTERIOR GLAZE

INTERIOR GLAZE

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SERIES CF450 1\(\frac{3}{4}\)" x 4\(\frac{1}{2}\)" - B1

CORNER DETAILS

**KEY ELEVATION**

1. 90°
2. 90°
3. 135°
4. 45°

**OTHER COMBINATIONS**

- **NO POCKETS** (Post)
- **ONE POCKET** (Terminating End)
- **TWO POCKETS** (Straight Wall)
- **THREE POCKETS** (Intersecting Walls)
- **FOUR POCKETS** (Intersecting Walls)

**COLUMN COVERS**

- Formed Aluminum Trim
- Aluminum Trim
SERIES CF450 1\(\frac{3}{4}\)" x 4\(\frac{1}{2}\)" - B1

HORIZONTAL OFFSET HUNG DOORFRAME DETAILS

KEY ELEVATION

ENTRANCE

DOOR OPENING

FRAME WIDTH at DOOR

MASONRY OPENING

DOOR OPENING

FRAME WIDTH

MASONRY OPENING

DOOR OPENING

FRAME WIDTH

MASONRY OPENING

DOOR OPENING

FRAME WIDTH

MASONRY OPENING

DOOR OPENING

FRAME WIDTH

MASONRY OPENING

DOOR OPENING

FRAME WIDTH

MASONRY OPENING

DOOR OPENING

FRAME WIDTH

MASONRY OPENING

DOOR OPENING

FRAME WIDTH
SERIES CF450 1\(\frac{3}{4}\)" x 4\(\frac{1}{2}\)" - B1

VERTICAL OFFSET HUNG DOORFRAME DETAILS

1. CF450-4
2. CF450-30
3. CF450-17
4. CF200-7
5. CF200-6-1

D.L.O. 1\(\frac{3}{4}\)" D.L.O.
FRAME WIDTH
MASONRY OPENING

D.L.O. 1\(\frac{3}{4}\" FRAME WIDTH
MASONRY OPENING

D.L.O. 1\(\frac{3}{4}\" DOOR OPENING
FRAME WIDTH
MASONRY OPENING

D.L.O. 1\(\frac{3}{4}\" DOOR OPENING
FRAME WIDTH
MASONRY OPENING

DOOR OPENING
SERIES CF450 1\(\frac{3}{4}\)” x 4\(\frac{1}{2}\)” - B1

BUTT GLAZED FRAMING with OFFSET HUNG ENTRANCE DETAILS

BUTT GLAZING NOTE:
Glass thickness at side lights = 3/8”
Glass bite at side lights = 1/2”
Use GSK-2 gasket

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WIND LOAD CHARTS
(Assumes Total Lateral Support of flanges)

EXAMPLE ELEVATION

H = Mullion Height
W = Mullion Spacing

20 psf

Curves are based on deflection limited to L/175 not to exceed 1" and total lateral support of flanges.
**WIND LOAD CHARTS**
(Assumes Total Lateral Support of flanges)

**EXAMPLE ELEVATION**

\[ H = \text{Mullion Height} \]
\[ W = \text{Mullion Spacing} \]

Curves are based on deflection limited to L/175 not to exceed 1" and total lateral support of flanges.
WIND LOAD CHARTS
(Assumes Total Lateral Support of flanges)

EXEMPLARY ELEVATION

H = Mullion Height
W = Mullion Spacing

Curves are based on deflection limited to L/175 not to exceed 1" and total lateral support of flanges.
WIND LOAD CHARTS
(Assumes Total Lateral Support of flanges)

EXAMPLE ELEVATION

H = Mullion Height
W = Mullion Spacing

Curves are based on deflection limited to L/175 not to exceed 1" and total lateral support of flanges.
These charts are designed to help with the selection of a mullion for storefront applications given the height (H) of the opening, the width (W) of the mullion spacing and the maximum spacing (SP) of the horizontals.

This mullion is acceptable if the horizontal mullions do not exceed spacing (SP) based on AA Specification for Aluminum Structures, 2010.

EXAMPLE ELEVATION

H = Mullion Height
W = Mullion Spacing
SP = Maximum Horizontal Space (Largest Space between Horizontals)
WIND LOAD CHARTS

EXAMPLE ELEVATION

H = Mullion Height
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WIND LOAD CHARTS

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WIND LOAD CHARTS

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H = Mullion Height
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This mullion is acceptable if the horizontal mullions do not exceed spacing (SP) based on AA Specification for Aluminum Structures, 2010.
DEAD LOAD CHART

EXAMPLE ELEVATION

H = Distance between Horizontals
W = Mullion Spacing
x = Location of setting blocks as a fraction of W

NOTE: Curves are based on deflection limited to 1/8".

CF450-2 with 1/4" Glass

These charts are designed to help with the selection of a mullion for storefront applications given the height (H) of the glass and the width (W) of the mullion spacing.
SECTION 08410 ALUMINUM ENTRANCES AND STOREFRONT SYSTEMS

This suggested guide specification has been developed using the current edition of the Construction Specifications Institute (CSI) “Manual of Practice,” including the recommendations for the CSI 3 Part Section Format and the CSI Page Format. The developmental concept and organizational arrangement used by the American Institute of Architects (AIA) MASTERSPEC Program were recognized in the preparation of this guide specification. Neither CSI nor AIA endorse specific manufacturers and products. The preparation of the guide specification assumes the use of standard contract documents and forms, including the “Conditions of the Contract,” published by the AIA.

PART 1 – GENERAL

1.01 Summary

A. Section Includes: Cardinal Commercial Products, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront framing.

1. Types of Cardinal Commercial Products include:
   a. CF450: 1-3/4” x 4-1/2” (outside) or (inside) center glazed storefront system for 1/4” glazing.

EDITOR NOTE: BELOW RELATED SECTIONS ARE SPECIFIED ELSE WHERE, HOWEVER, CARDINAL COMMERCIAL PRODUCTS RECOMMENDS SINGLE SOURCE RESPONSIBILITY FOR ALL OF THESE SECTIONS AS INDICATED IN 2.07 SOURCE QUALITY CONTROL.

B. Related Sections:
   1. Division 7 Section “Vapor Barriers” between glazed wall systems and adjacent construction
   2. Division 7 Section “Fire Stopping”
   3. Division 7 Section “Joint Sealants” for joint sealants installed as part of aluminum entrance and storefront system
   4. Division 8 Section “Glazed Aluminum Curtain Walls”
   5. Division 8 Section “Aluminum Windows Walls”
   6. Division 8 Section “Aluminum Entrances and Storefronts”
   7. Division 8 Section “Aluminum Mall Sliding Doors”
   8. Division 8 Section “Finish Hardware”
   9. Division 8 Section “Glass and Glazing”

EDITOR NOTE: REFER TO INDEX FOR ANY AND ALL APPLICABLE STANDARDS.

1.02 References (Industry Standards)

1.03 System Description

A. Storefront System Performance Requirements:
   1. Air Infiltration: The test specimen shall be tested in accordance with ASTM 283. Air infiltration rate shall not exceed 0.06 cfm/ft2 at a (static) air pressure differential of 6.24 PSF.
   2. Water Resistance, (static): The test specimen shall be tested in accordance with ASTM 331 for (outside) or (inside). There shall be no leakage at a minimum static air pressure differential of 10 PSF as defined in AAMA 501.
   3. Uniform Load: A static air design load of 35 PSF shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of L/175 of the span of any framing member at design load. At structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.

1.04 Submittals

A. General: Prepare, review, approve, and submit specified submittals in accordance with “Conditions of the Contract” and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in “Conditions of the Contract.”

B. Quality Assurance/Control Submittals:
   1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics.

1.05 Warranty

A. Project Warranty: Refer to “Conditions of the Contract” for project warranty provisions.

B. Manufacturer’s Product Warranty: Submit, for Owner’s acceptance, manufacturer’s warranty for storefront system as follows:
   1. Warranty Period: Two (2) years from Date of Substantial Completion of the project. The Limited Warranty shall begin in no event later than six months from date of shipment by Cardinal Commercial Products without regard to the date selected as substantial completion. In addition, entrance door corner construction shall be supported with a lifetime warranty for the life of the door under normal use.

1.06 Quality Assurance

A. Qualifications:
   1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project and who is acceptable to product manufacturer.
   2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction, approving acceptable installer and approving application method.

B. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer’s installation instructions, and manufacturer’s warranty requirements.
1.07 Delivery, Storage, and Handling
A. Ordering: Comply with manufacturer’s ordering instructions and scheduling requirements to avoid construction delays.
B. Packing, Shipping, Handling, and Unloading: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.
C. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.

PART 2 – PRODUCTS

EDITOR NOTE: RETAIN BELOW ARTICLE FOR PROPRIETARY METHOD SPECIFICATION; ADD PRODUCT ATTRIBUTES, PERFORMANCE CHARACTERISTICS, MATERIAL STANDARDS, AND DESCRIPTIONS AS APPLICABLE. DO NOT USE THE PHRASE “OR EQUAL” / “OR APPROVED EQUAL,” OR SIMILAR PHRASES, USE OF SUCH PHRASES CAN CAUSE AMBIGUITY IN THE SPECIFICATIONS DUE TO THE DIFFERENT INTERPRETATIONS AMONG THE DIVERGENT PARTIES OF THE CONSTRUCTION PROCESS AND READERS OF THESE SPECIFICATIONS. SUCH PHRASES REQUIRE EXTENSIVE AND COMPLETE REQUIREMENTS (PROCEDURAL, LEGAL, REGULATORY, AND RESPONSIBILITY) FOR DETERMINING “OR EQUAL.”

2.01 Manufacturers (Acceptable Manufacturers/Products)
A. Acceptable Manufacturers:
1. Address:
   Cardinal Commercial Products, LLC
   4915 Heller Street
   Louisville, KY 40218

   Contact Numbers:
   a. Telephone: 502-969-4059
   b. Fax: 502-813-2484
   c. Email: ccpinfo@cardcompro.com
   d. Web address: cardcompro.com

2. Proprietary Product(s)/System(s): Cardinal Commercial Products
   a. Series: CF450 Storefront System

EDITOR NOTE: RETAIN BELOW FOR ALTERNATE MANUFACTURERS/PRODUCTS AS SPECIFIED IN THE CONTRACT DOCUMENTS. COORDINATE BELOW WITH BID DOCUMENTS (IF ANY), AND DIVISION 1 ALTERNATES SECTION. CONSULT WITH CARDINAL COMMERCIAL PRODUCTS FOR RECOMMENDATIONS ON ALTERNATE MANUFACTURERS AND PRODUCTS MEETING THE DESIGN CRITERIA AND PROJECT REQUIREMENTS. CARDINAL COMMERCIAL PRODUCTS RECOMMENDS OTHER MANUFACTURERS REQUESTING APPROVAL TO BID THEIR PRODUCT AS AN EQUAL, MUST SUBMIT THEIR REQUEST IN WRITING (10) DAYS PRIOR TO CLOSE OF BIDDING.

B. Alternate (Manufacturers/Products): In lieu of providing below specified base bid/contract manufacturer, provide below specified alternate manufacturers. Refer to Division 1 Alternates Section.
1. Base Bid/Contract Manufacturer/Product: Cardinal Commercial Products
   a. Product: Cardinal Commercial Products Storefront System
   b. Series CF450 Storefront System: 1-3/4” x 4-1/2” nominal dimension, Center Glazed; Screw-Spline Fabrication

2. Alternate #____ Manufacturer/Product:
   a. Product:
   b. Series:
   c. Framing Member Profile:

3. Alternate # ___ Manufacturer/Product:
   a. Product:
   b. Series:
   c. Framing Member Profile:

C. Substitutions:
1. General: Refer to Division 1 Substitutions for procedures and submission requirements.
   a. Pre-Contract (Bidding Period) Substitutions: Submit written requests ten (10) days prior to bid date.
   b. Post-Contract (Construction Period) Substitutions: Submit written request in order to avoid storefront installation and construction delays.
2. Substitution Documentation
   a. Product Literature and Drawings: Submit product literature and drawings modified to suit specific project requirements and job conditions.
   b. Certificates: Submit certificate(s) certifying substitute manufacturer (1) attesting to adherence to specification requirements for storefront system performance criteria.
   c. Test Reports: Submit test reports verifying compliance with each test requirement for storefront required by the project.
   d. Product Sample and Finish: Submit product sample, representative of storefront for the project, with specified finish and color.
3. Substitution Acceptance: Acceptance will be in written form, either as an addendum or modification, and documented by a formal change order signed by the Owner and Contractor.
GUIDE SPECIFICATIONS
(Continued)

2.02 Materials
A. Aluminum (Storefront and Components):
   2. Member Wall Thickness: Each framing member shall have a wall thickness sufficient to meet the specified structural requirements.
   3. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of storefront framing members are nominal and in compliance with AA Aluminum Standards and Data.

2.03 Accessories
A. Fasteners: Where exposed, shall be Stainless Steel.
B. Gaskets: Glazing gaskets shall comply with ASTM C 864 and be extruded of silicone compatible EPDM rubber that provides for silicone adhesion.
C. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.

2.04 Related Materials
A. Sealants: Refer to Joint Treatment (Sealants) Section.
B. Glass: Refer to Glass and Glazing Section.

2.05 Fabrication
A. General:
   1. Fabricate components per manufacturer’s installation instructions and with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
   2. Accurately fit and secure joints and corners. Make joints flush, hairline and weatherproof.
   3. Arrange fasteners and attachments to conceal from view.

EDITOR NOTE: SELECT BELOW FINISH AND COLOR FROM CARDINAL COMMERCIAL PRODUCTS STANDARD COLORS. CUSTOM COLORS ARE AVAILABLE UPON REQUEST FROM CARDINAL COMMERCIAL PRODUCTS. OTHER POLYESTER POWDER COATINGS CONFORMING TO AAMA 2604 ARE AVAILABLE. CONSULT WITH YOUR CARDINAL COMMERCIAL PRODUCTS REPRESENTATIVE FOR OTHER SURFACE TREATMENTS AND FINISHES.

2.06 Finishes
A. Shop Finishing
   3. AAMA 2605, Fluoropolymer Powder Coating (Color: ____________).
   4. AAMA 2604, Polyester Powder Coating. (Color: ____________).
   5. Other: Manufacturer ____________ Type ____________ Color: ____________.

2.07 Source Quality Control
A. Source Quality: Provide aluminum storefront specified herein from a single source.
   1. Building Enclosure System: When aluminum curtain wall are part of a building enclosure system, including entrances, entrance hardware, windows, curtain wall framing and related products, provide building enclosure system products from a single source manufacturer.

PART 3 – EXECUTION

3.01 Examination
A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer’s instructions. Verify openings are sized to receive specified system and sill plate is level in accordance with manufacturer’s acceptable tolerances.

EDITOR NOTE: COORDINATE BELOW ARTICLE WITH MANUFACTURER’S RECOMMENDED INSTALLATION DETAILS AND INSTALLATION INSTRUCTIONS.

1. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

3.02 Installation
A. General: Install storefront systems plumb, level, and true to line, without warp or rack of frames with manufacturer’s prescribed tolerances and installation instructions. Provide support and anchor in place.
   1. Dissimilar Materials: Provide separation of aluminum materials from sources of corrosion or electrolytic action contact points.
   2. Glazing: Glass shall be (outside) or (inside) glazed and held in place with extruded EPDM glazing gaskets on both sides of the glass.
   3. Water Drainage: Water deflectors shall be installed at each end of intermediate horizontal allowing infiltrated water to drain down the vertical member’s glazing pocket into a full height subsill receptor where it weeps to the exterior through weep holes backed with baffles to reduce air infiltration.

B. Related Products Installation Requirements:
   1. Sealants (Perimeter): Refer to Division 7 Joint Treatment (Sealants) Section.
   2. Glass: Refer to Division 8 Glass and Glazing Section.
GUIDE SPECIFICATIONS
(Continued)

3.03 Field Quality Control
A. Field Tests: Architect shall select storefront units to be tested as soon as a representative portion of the project has been installed, glazed, perimeter caulked and cured. Conduct tests for air infiltration and water penetration with manufacturer’s representative present. Tests not meeting specified performance requirements and units having deficiencies must be corrected as part of the contract amount.
   1. Testing: Testing shall be performed per AAMA 503 by a qualified independent testing agency. Refer to Division Testing Section for payment of testing and testing requirements.
      a. Air Infiltration Tests: Conduct tests in accordance with ASTM E 783. Allowable air infiltration shall not exceed 1.5 times the amount indicated in the performance requirements or 0.09 cfm/ft², which, ever is greater.
      b. Water Infiltration Tests: Conduct tests in accordance with ASTM E 1105. No uncontrolled water leakage is permitted when tested at a static test pressure of two-thirds the specified water penetration pressure but not less than 8 PSF.
B. Manufacturer’s Field Services: Upon Owner’s request, provide manufacturer’s field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer’s instructions.

3.04 Protection and Cleaning
A. Protection: Protect installed product’s finish surfaces from damage during construction. Protect aluminum storefront system from damage from grinding and polishing compounds, plaster, lime, acid, cement, or other harmful contaminants.
B. Cleaning: Repair or replace damaged installed products. Installed products are to be cleaned in accordance with manufacturer’s instructions prior to owner’s acceptance. Remove construction debris from project site and legally dispose of debris.

DISCLAIMER STATEMENT
This guide specification is intended for use by a qualified construction specifier. The guide specification is not intended to be verbatim as a project specification without appropriate modifications for the specific use intended. The guide specification must be used and coordinated with the procedures of each design firm, and the particular requirements of a specific construction project.

END OF SECTION 08410