CARTERET COUNTY GOVERNMENT

Phone: 252-648-7877

Specifications

1. General Requirements
    a. Construction schedule shall be coordinated with the County P.O.C., Engineer, and the selected Contractor to avoid disruption to County operations to the extent possible.
    b. Contractor shall ensure that all areas remain secure at all times. Contractor shall not remove more windows than can be replaced within 48 hours of removal. No openings shall be left unsecured overnight. Contractor shall be responsible for providing safety precautions for delineating all work areas including, but not limited to, construction fencing, cones, etc. Plywood shall be installed to protect any windows or storefront doors left open during non-working hours.
    c. Contractors may perform work during non-business hours with at least 48 hours notice to the County and approval from the County.

2. Window Replacement. All identified windows shall be replaced with white aluminum framed windows using impact and non-impact and factory-tinted glass.
    a. Identified windows shall be replaced with Trulite Series CT501 Impact Storefront System or approved equal.
    b. All windows on the 1st & 2nd floor of the administrative building, the east and west sides of the 2nd floor connecting hallway, and the windows surrounding the courtyard within the courthouse complex shall be replaced.
    c. Impact rated units shall be designed to meet High-Velocity Hurricane Zone (HVHZ) Requirements, ASTM E1996,/TAS 201 & ASTM E1886/TAS 203.
    d. All windows shall be factory-tinted. Tinting shall match newly replaced storefront system at District Court entrance.
    e. Contractor shall be responsible for ensuring that all interior and exterior conditions are restored to their pre-constructed conditions.
    f. For bidding purposes, contractors shall assume that all windows have a 1x painted wood window sill and a 1x4 painted wood apron beneath. Sill shall extend to be flush with apron.
    g. Contractor shall be responsible for verifying quantity and dimensions of windows.
    h. Contractor shall be responsible for installation of the windows in accordance with the manufacturer's requirements.
    i. Contractor shall be responsible for ensuring that the replacement of all windows meets or exceeds applicable building codes for wind load, energy efficiency, and any other requirements.

3. Storefront Door Replacement.
    a. Identified storefront doors shall be replaced with Trulite Series CT501 Impact Storefront System or approved equal.
    b. All windows shall be factory-tinted. Tinting shall match newly replaced storefront system at District Court entrance.
    c. Impact rated systems shall be designed to meet High-Velocity Hurricane Zone (HVHZ) Requirements, ASTM E1996,/TAS 201 & ASTM E1886/TAS 203.
    d. Storefront doors shall match the storefront doors at the west entrance to the Courthouse.
    e. Contractor shall be responsible for verifying quantity and dimensions of all storefront doors to be replaced.
    f. The main storefront entrance to the administrative building is approximately 10' 10 ¼" tall and 20' 0" wide with two (2) 3' 0" x 7' 2 5/8" doors.
    g. Storefront entrance on the west side of the administrative building is approximately 5' 11 ½" wide and 7' 3 ½" tall with a 3' 0" x 7' 2 5/8" door.
    h. Storefront entrance on the east side of the administrative building is approximately 5' 11 ½" wide and 7' 3 ½" tall with a 3' 0" x 7' 2 5/8" door.
    i. Storefront entrance into the Courthouse courtyard shall also be replaced.
    j. Contractor shall be responsible for ensuring that all interior and exterior conditions are restored to their pre-constructed conditions.
    k. Contractor shall be responsible for installation of the storefront doors in accordance with the manufacturer's requirements.
    l. Contractor shall be responsible for ensuring that the replacement of all storefront doors meets or exceeds applicable building codes for wind load, energy efficiency, and any other requirements.
    m. Hardware schedule provided below.

4. Curtain Wall Replacement.
    a. Curtain wall replacement shall be completed with Trulite Series CT501 Impact Rated Curtain wall system or approved equal. Specification data is provided.
    b. All windows shall be factory-tinted. Tinting shall match newly replaced storefront system at District Court entrance.
    c. Contractor shall be responsible for ensuring installation of curtain wall system is installed in accordance with strict adherence to the manufacturer's recommendations.
    d. Impact rated systems shall be designed to meet High-Velocity Hurricane Zone (HVHZ) Requirements, ASTM E1996,/TAS 201 & ASTM E1886/TAS 203.
    e. Maximum allowable deflection shall not exceed L/180 for Miami HVHZ.
    f. Water penetration shall meet ASTM E331 / TAS 202 with no uncontrolled water when tested at 20 psf.
    g. Air infiltration shall meet ASTM E283 / TAS 202 which shall not exceed 0.06 cfm/ft^2 at 6.24 psf.
    h. U-value shall not exceed 0.38 Btu/hr-ft^2-F meeting NFRC 100 or AMMA 507.
    i. The large curtain wall on east side of the entrance to the administrative building is approximately 22' 4" tall and 16' 9 ¼" wide.

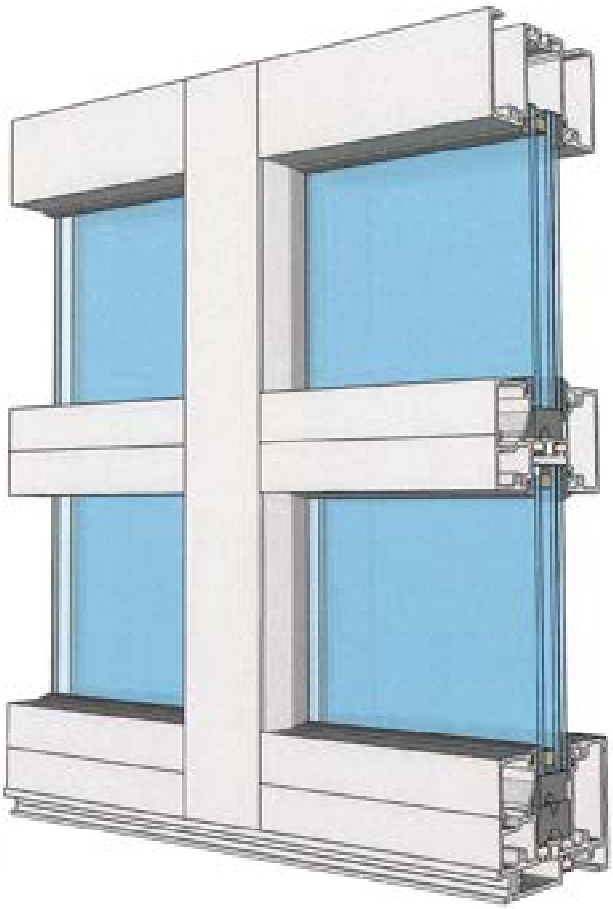
Trulite
GLASS & ALUMINUM SOLUTIONS™

CT501 Thermal Impact Storefront System

ON TIME. ON SPEC. ON COST.

Features

- 2 1/2" x 5" Center Glazed Storefront
- Thermally Broken Design to Enhance Performance
- Miami-Dade NOA, FBC & TDI Approvals Available
- 1 5/16" Laminated Insulated Glass Infill
- Wet & Dry Glazed Versions Available
- Accepts Series 351/351X & 352 Impact Entrances
- Shortest Lead time in the Industry



Performance Data

AIR
ASTM E283: Air Infiltration shall not exceed 0.06 cfm/ft² when tested at 6.24psf

STRUCTURAL
ASTM E330: Maximum Allowable Deflection of L/180 at maximum design pressure of 65 psf

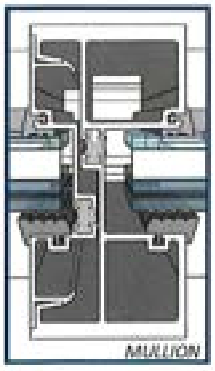
THERMAL
As determined per NFRC 100 or AMMA 507 the U-Value shall not exceed 0.45 Btu/hr-ft²-F

WATER
ASTM E331 and AAMA 501: No uncontrolled water when tested at 15psf

IMPACT
ASTM E1886 / TAS 201 & ASTM E1996 TAS 203

Scan For Full Details

System Details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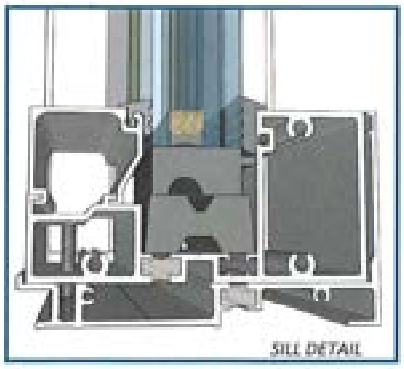
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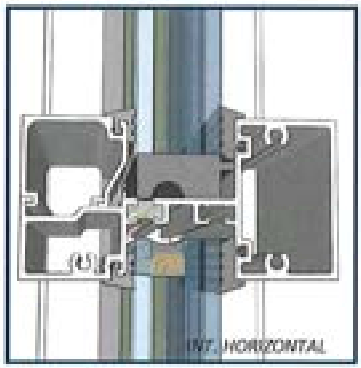
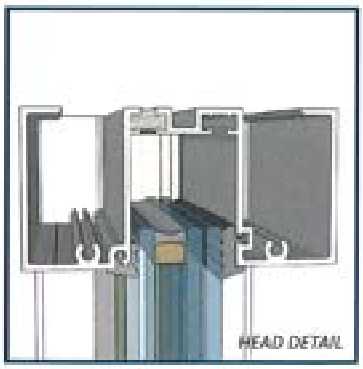

INT. HORIZONTAL


HEAD DETAIL

Trulite Glass & Aluminum Solutions is proud to be your True Single Source Supplier of all your needs from Specification Sections: 08400, 08700, 08800 and 08900. Complete system details are available on www.trulite.com

403 Westpark Court, Suite 201, Peachtree City, GA 30269. Tel: 800-432-8132

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: Aluminum Storefront Systems

1. Trulite CT501 Thermal Impact Storefront System.

B. Related Sections:

1. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
2. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
3. Single Source Requirement: All products listed below shall be by the same manufacturer.
    a. Section 08 41 13 Aluminum-Framed Entrances & Storefronts.
    b. Section 08 44 13 Glazed Aluminum Curtain Walls.

1.02 SYSTEM PERFORMANCE DESCRIPTION

A. Performance Requirements: Provide aluminum storefront systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test methods indicated.

1. Air Infiltration shall be tested in accordance with FBC Test Protocol TAS 202/ASTM E283 at static pressure of 6.24psf. Infiltration shall not exceed 0.06 CFM/FT^2 of total frame area.
2. Structural: Uniform Load Test in Accordance with FBC Test Protocol TAS 202/ASTM E330 at a minimum static test pressure of 80psf.
3. Impact Resistance: Large-Missile Impact, tested in accordance with FBC Test Protocol TAS-201/ASTM E 1996.
4. Cyclic Pressure Test: Load spectrum tested in accordance with FBC Test Protocol TAS-203/ASTM E1886.
5. Thermal Movement: Provide for thermal movement caused by 180° F (82.2 o C) surface temperature, with out causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.

1.03 WARRANTY

A. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.

1. Warranty Period: Manufacturer's two (2) year standard warranty commencing on the date of shipment by Trulite Glass & Aluminum Solutions, LLC

PART 2 PRODUCTS

2.01 MANUFACTURERS (Acceptable Manufacturers/Products)

A. Acceptable Manufacturers: Trulite Glass & Aluminum Solutions

1. Trulite CT501 Thermal Impact Storefront System.

B. Storefront Framing System

1. Description: Insulating glass to be "flush glazed" and located in the center of the framing system. The glass maybe glazed from the exterior, or interior of the building. The framing system shall be assembled with #14 hex head fasteners to ensure the integrity of each joint; all screws to be concealed.

2.02 MATERIALS

A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T6 Aluminum Alloy.

2.03 FINISHES

A. Anodized Finishing in accordance with the requirements of AAMA 611.

1. Architectural Class II, etched, medium matte, clear anodic coating, 0.4 mil (10 microns) minimum thickness.
2. Architectural Class I, etched, medium matte, black, dark bronze, medium bronze, colored anodic coating, 0.7 mil (18 microns) minimum thickness.

B. High Performance Organic Coating in accordance with either AAMA 2604 or AAMA 2605

1. Finish coat of 50% (AAMA 2604) or 70% (AAMA 2605) minimum fluorocarbon resin fused to primed surfaces at temperature recommended by manufacturer, 1.0 mil (25.4 microns) minimum dry film thickness. Color to be selected by architect.

Trulite
GLASS & ALUMINUM SOLUTIONS

RESISTOR® ALUMINUM STOREFRONT SYSTEM
SERIES CT501
GUIDE SPECIFICATIONS

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: **Trulite Glass & Aluminum Solutions,** including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront framing.

1. Types of **Trulite Glass & Aluminum Solutions Resistor® Aluminum Framing Systems** include:
   a. CT501: 2-1/2" x 5" nominal dimension; thermal storefront system; center glazed; 1- 5/16" laminated glass for large missile impact-resistant glazing; wet & dry glazed; screw spline fabrication.

EDITOR NOTE: BELOW RELATED SECTIONS ARE SPECIFIED ELSE WHERE, HOWEVER, **TRULITE GLASS & ALUMINUM SOLUTIONS** 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"

1.02 References (Industry Standards)

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

1.03 System Description

EDITOR NOTE: AIR AND WATER PERFORMANCE RESULTS ARE BASED UPON ASTM AND AAMA STANDARDS FOR STOREFRONT FRAMING SYSTEMS. HIGHER PERFORMANCE RESULTS HAVE BEEN CERTIFIED AND ARE AVAILABLE. CONSULT YOUR LOCAL **TRULITE GLASS & ALUMINUM SOLUTIONS** REPRESENTATIVE CONCERNING SPECIFIC PROJECT PERFORMANCE REQUIREMENTS. THE SPECIFIER MUST SELECT GLASS AND MULLION COMBINATIONS FROM THE OPTIONS AND LIMITATIONS CHART PROVIDED IN 2.04 B. THE GLASS AND MULLIONS FUNCTION AS AN INTEGRAL UNIT. THESE COMBINATIONS ARE BASED ON ACTUAL PERFORMANCE TESTING AND CANNOT BE ALTERED WITHOUT SACRIFICING THE INTEGRITY OF THE SYSTEM.

A. **Storefront System Performance Requirements:**

EDITOR NOTE: PROVIDE WIND LOAD DESIGN PRESSURES IN PSF AND INCLUDE APPLICABLE BUILDING CODE AND YEAR EDITION.

1. Wind loads: Provide framing system; include anchorage, capable of withstanding wind load design pressures of (____) P.S.F. inward and (____) P.S.F. outward. The design pressures are based on the (____) Building Code; (____) Edition.

2. Air Infiltration: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft² at static air pressure differential of 6.24 P.S.F.
3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 12 PSF as defined in AAMA 501.
4. Uniform Load: A static air design load of +65/-67 PSF (48" Spacing x 120" Span) shall be applied in the positive and negative direction in accordance with FBC Test Protocol TAS 202 and ASTM E 330. There shall be no deflection in excess of 1/180 of the span of any framing member. At a 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.
5. Impact Resistance: Large Missile, tested in accordance with FBC Test Protocols TAS 201/203 and ASTM E1996/E1886.
6. Framing System shall provide direct structural attachment to substrate through perimeter framing sections eliminating blind seals or strap anchors.
7. Thermal Transmittance (U-factor): 0.39 Btu/hr-ft²-F when tested to NFRC 102 or less as determined per AAMA507 or NFRC 100.
8. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than: 56 (frame) and 65 (glass) based on 0.035 low-e on #2 glass.

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 **Trulite Glass & Aluminum Solutions** without regard to the date selected as substantial completion.

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: Trulite Glass & Aluminum Solutions
   403 West Park Court Suite #201
   Peachtree City, GA 30269

Contact info:

a. Telephone: 678-593-9200
b. Email: info@trulite.com
c. Web address: www.trulite.com

2. Proprietary Product(s)/System(s): Trulite Glass & Aluminum Solutions
   a. Trulite Glass & Aluminum Solutions Resistor® Aluminum 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 **TRULITE GLASS & ALUMINUM SOLUTIONS** FOR RECOMMENDATIONS ON ALTERNATE MANUFACTURERS AND PRODUCTS MEETING THE DESIGN CRITERIA AND PROJECT REQUIREMENTS. **TRULITE GLASS & ALUMINUM SOLUTIONS** 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. Series: CT501 Framing System
   c. Framing Member Profile: 2-1/2" x 5" nominal dimension; thermal storefront; center glazed; wet & dry glazed; screw spline fabrication
   d. Finish/Color: (See 2.06 Finishes)

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: **Trulite Glass & Aluminum Solutions**
      a. Trulite Glass & Aluminum Solutions Resistor® Aluminum Storefront System
      b. Series **CT501** Thermal Storefront System: 2-1/2" x 5"; center glazed; glazing option: wet & dry 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.

2.02 Materials

A. Aluminum (Framing and Components):
   1. Material Standard: ASTM B 221, 6063-T6 alloy and temper.
   2. Member Wall Thickness: Each framing member shall provide structural strength to meet the specified performance requirements.
   3. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of storefront members are nominal and in compliance with AA Aluminum Standards and Data.

2.03 Accessories

A. Fasteners: Shall be corrosive resistant.
B. Gaskets: Exterior Glazing gaskets shall be extruded EPDM rubber. Interior Spacer shall be compatible with Silicone Sealant
C. Perimeter Anchors: Anchors shall be identical to the types used for product certification testing for wood, concrete or steel substrates.

2.04 Related Materials

A. Sealants: Refer to Joint Treatment (Sealants) Section.
   1. Structural silicone sealant to be Dowsil 995.

B. Glass: Refer to latest Product Approval for "As Tested" qualified glass.

2.05 Fabrication

A. General:
1. Fabricate components per manufacturer's installation instructions and with 3/8" maximum 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. Strap Anchors are not allowed for use with Hurricane Impact-Resistant Systems.
4. Arrange fasteners and attachments to conceal from view
5. Structural perimeter fasteners shall be located per manufacturer's anchor charts bearing the seal of registered Professional Engineer.

EDITOR NOTE: SELECT BELOW FINISH AND COLOR FROM **TRULITE GLASS & ALUMINUM SOLUTIONS** STANDARD COLORS. CUSTOM COLORS ARE AVAILABLE UPON REQUEST FROM **TRULITE GLASS & ALUMINUM SOLUTIONS**. OTHER POLYESTER POWDER COATINGS CONFORMING TO AAMA 2604 ARE AVAILABLE. CONSULT WITH YOUR **TRULITE GLASS ALUMINUM & SOLUTIONS** REPRESENTATIVE FOR OTHER SURFACE TREATMENTS AND FINISHES.

2.06 Finishes

A. Shop Finishing
1. Color Anodizing Conforming to AA-M12C22A44, AAMA 611, Architectural. Class. I. Anodic Coating (Color: #80 ***Dark Bronze***). (Standard)
2. Clear Anodizing Conforming to AA-M12C22A31, AAMA 611, Architectural. Class. II. Clear Anodic Coating (**Clear:** #04 (Standard)
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 framing specified herein from a single source.
1. Building Enclosure System: When aluminum framing is part of a building enclosure system, including entrances, entrance hardware, windows, curtain wall system and related products, provide building enclosure system products from a single source manufacturer.

B. Fabrication Tolerances: Fabricate aluminum framing in accordance with framing manufacturer's prescribed tolerances.

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 storefront system and sill plate is level in accordance with manufacturer's acceptable tolerances.
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.

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

3.02 Installation

A. General: Install framing system in accordance with manufacturer's instructions and AAMA storefront and entrance guide specifications manual.
1. Dissimilar Materials: Provide separation of aluminum materials from sources of corrosion or electrolytic action contact points.
2. Weather-tight Construction: Install storefront system and other members in accordance with manufacturer's installation instructions to ensure weather-tight construction. Coordinate installation with wall flashings and other components of construction.
3. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
4. Provide alignment attachments and shims to permanently fasten system to building structure.
5. Align assembly plumb and level, free of warp and twist. Maintain assembly dimensional tolerances aligning with adjacent work.

B. Related Products Installation Requirements:
   1. Sealants (Perimeter): Refer to Division 7 Joint Treatment (Sealants)
   2. Glass: Refer to Division 8 Glass and Glazing and Product Approval for CTS01 Hurricane Impact-Resistant System.
      a. Reference: ANSI Z97.1, CPSC 16 CFR 1201 and GANA Glazing Manual.

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 by a qualified independent testing agency. Refer to Division 1 Testing Section for payment of testing and testing requirements. Testing Standard shall be in accordance with AAMA 503, including reference to ASTM E 783 for Air Infiltration Test and ASTM E 1105 Water Infiltration Test.
      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/ft^2, whichever 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 6.24 P.S.F.

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 and clean installed products 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

New Door Installation
Hardware Schedule

Revised 02/17/2026

Hardware Sets or equal

Set: 1.0

Double Doors

6	Hinge, Full Mortise, Hvy Wt	T4A3386	US32D	MK
1	Electric Power Transfer	EL-CEPT	630	SU
1	Fire Rated Rim Exit, Night latch	7100F B MELR CR 632F	626	YA
1	Fire Rated Rim Exit, Exit Only	7100(F) B EO (No Outside Trim)	630	YA
1	Medeco X4 Rim Cylinder Housing	33-07603H	26	MC
1	Medeco X4 Rim SFIC Core	3360006-N-26-DGV-M		MC
2	Surface Closer	PR4400	689	YA
2	Kick Plate	K1050 12" high CSK BEV	US32D	RO
2	Door Stop	463-RKW (As Required)	US32D	RO
1	Gasketing	303AS (Head & Jambs)		PE
1	Rain Guard	346C x Width of Frame Head		PE
2	Sweep	345AV x Length Required		PE
1	Threshold	171A		PE
1	Card Reader	Provided By Security Supplier		OT
1	ElectroLynx Harness	QC-C**** x Length Required		MK
1	ElectroLynx Harness	QC-C1500P		MK
1	Position Switch	DPS - M / W-BK (SPDT)		SU
1	Power Supply	AQL-R_ (Size & Type as required)		SU
1	Wiring Diagram	Elevation and Point to Point as Specified		OT

Hardware Sets or equal

Set: 1.0

Single Doors

3	Hinge, Full Mortise, Hvy Wt	T4A3386	US32D	MK
1	Electric Power Transfer	EL-CEPT	630	SU
1	Fire Rated Rim Exit, Night latch	7100F B MELR CR 632F	626	YA
1	Medeco X4 Rim Cylinder Housing	33-07603H	26	MC
1	Medeco X4 Rim SFIC Core	3360006-N-26-DGV-M		MC
1	Surface Closer	PR4400	689	YA
1	Kick Plate	K1050 12" high CSK BEV	US32D	RO
1	Door Stop	463-RKW (As Required)	US32D	RO
1	Gasketing	303AS (Head & Jambs)		PE
1	Rain Guard	346C x Width of Frame Head		PE
1	Sweep	345AV x Length Required		PE
1	Threshold	171A		PE
1	Card Reader	Provided By Security Supplier		OT
1	ElectroLynx Harness	QC-C**** x Length Required		MK
1	ElectroLynx Harness	QC-C1500P		MK
1	Position Switch	DPS - M / W-BK (SPDT)		SU
1	Power Supply	AQL-R_ (Size & Type as required)		SU
1	Wiring Diagram	Elevation and Point to Point as Specified		OT