SECTION 08210 FRP FLUSH DOORS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Fiberglass reinforced polyester (FRP) flush doors with aluminum frames.

1.2 RELATED SECTIONS
A. Standard Steel Door and Frames: SECTION C08110

1.3 PERFORMANCE REQUIREMENTS
A. General: Provide door assemblies that have been designed and fabricated to comply with specified performance requirements, as demonstrated by testing manufacturer's corresponding standard systems.
B. Air Infiltration: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 283 at pressure differential of 6.24 psf. Door shall not exceed 0.06 cfm per linear foot of perimeter crack.
C. Water Resistance: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 331 at pressure differential of 7.50 psf. Door shall not have water leakage.
D. Thermal Transmission Exterior Doors, U-Value, AAMA 1503-98: Maximum of 0.29 BTU/hr x sf x degrees F. Minimum of 55 CRF value.
E. Surface Burning Characteristics, FRP Doors and Panels: ASTM E 84:
11. Flame Spread: Maximum of 200, Class C.

1.4 SUBMITTALS
A. Product Data: Submit manufacturer's product data, including description of materials, components, fabrication, finishes, and installation.

1.5 WARRANTY
A. Warrant doors, frames, and factory hardware against failure in materials and workmanship, including excessive deflection, faulty operation, defects in hardware installation, and deterioration of finish or construction in excess of normal weathering.
B. Warranty Period: Ten years starting on date of shipment. In addition, a limited lifetime (while the door is in its specified application in its original installation) warranty covering: failure of corner joinery, core deterioration, delamination or bubbling of door skin.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Special-Lite, Inc., Decatur, Michigan 49045.

2.2 FRP FLUSH DOORS
A. Model: SL-17 Flush Doors with SpecLite3 fiberglass reinforced polyester (FRP) face sheets.
B. Construction:
1. Door Thickness: 1-3/4 inches.
2. Stiles and Rails: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes, minimum of 2-5/16-inch depth.
3. Corners: Mitered.
4 Provide joinery of 3/8-inch diameter full-width tie rods through extruded splines top and bottom integral to standard tubular shaped stiles and rails reinforced to accept hardware as specified.
5. Securing Internal Door Extrusions: 3/16-inch angle blocks and locking hex nuts for joinery. Welds, glue, or other methods are not acceptable.
6. Furnish extruded stiles and rails with integral reglets to accept face sheets. Lock face sheets into place to permit flush appearance.
7. Rail caps or other face sheet capture methods are not acceptable.
8. Extrude top and bottom rail legs for interlocking continuous weather bar.
9. Meeting Stiles: Pile brush weatherseals. Extrude meeting stile to include integral pocket to accept pile brush weatherseals.
10. Bottom of Door: Install bottom weather bar with nylon brush weatherseal fitting into extruded interlocking edge of bottom rail.
11. Glue: Use of glue to bond sheet to core or extrusions is not acceptable.
C. Face Sheet:
1. Material: SpecLite3 FRP, 0.120-inch thickness, finish color throughout.
2. Protective Coating: Abuse-resistant engineered surface. Provide FRP with SpecLite3 protective coating, or equal.
3. Texture: Pebble.
4. Adhesion: The use of glue to bond face sheet to foam core is prohibited.
D. Core:
1. Material: Poured-in-place polyurethane foam.
2. Density: Minimum of 5 pounds per cubic foot.
3. R-Value: Minimum of 9.
E. Cutouts:
1. Factory install vision lites, louvers, and panels.
F. Hardware:
1. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule. No exceptions will be allowed.

2.3 MATERIALS
A. Aluminum Materials:
1. Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes: ASTM B 221.
2. Sheet and Plate: ASTM B 209.
3. Alloy and Temper: As required by manufacturer for strength, corrosion resistance, application of required finish, and control of color.
B. Components: Door and frame components from same manufacturer.
C. Fasteners:
Material: Aluminum, 18-8 stainless steel, or other noncorrosive metal.
Compatibility: Compatible with items to be fastened.
3. Exposed Fasteners: Screws with finish matching items to be fastened.

SECTION C08320 ALUMINUM DOOR FRAMING SYSTEMS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Flush mounted access panels.

1.2 RELATED SECTIONS
A. Metal Fabrications: SECTION C05500
B. Gypsum Board Systems: SECTION C09250
C. Rough Carpentry: SECTION C06000
D. Painting: SECTION C09910

PART II - PRODUCTS

2.1 MANUFACTURER
A. Interior Access Panels:
1. Larsen Manufacturing Co., Minneapolis, Minnesota.
2. MIFBA, Chicago, IL 60641.
3. Substitutions are allowed as described in SECTION C01600.
B. Exterior Access Panels:
1. JL Industries, Flamington, MN 55435

2.2 ACCESS PANELS
A. General: Access panels shall meet or exceed the following:
1. Size: 16 cross indicated on the drawings
2. Material:
a. Door: 14 gauge galvanized steel, minimum
b. Frame: 16 gauge steel, minimum
2. Hardware:
a. Hinges: Concealed.
b. Locks: Flush screw driver operated steel cam.
3. Anchors: Manufacturer's standard for use intended.
4. Finish: Phosphate dipped steel with factory prime coat.
B. Exterior: Model XPA weather resistant flush access panel
1. Material:
a. Door: 2-inch thick insulated .040 aluminum
b. Insulation: Fiberglass
c. Frame: 16 gauge galvanized steel frame with 1-inch hinge
2. Hardware:
a. Hinge: Continuous stainless steel piano hinge
3. Handle: Provide (2) non-locking (H) die-cast zinc handles with chrome plating
4. Gasket: EPDM foam rubber bulb seal
5. Anchors: Manufacturer's standard for use intended.
6. Powdercoat Finish: Bronze (B)
7. Provide spring chain to prevent door swinging more than 110 degrees.

PART III - EXECUTION

3.1 INSTALLATION
A. Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

3.2 CLEAN-UP
A. Upon completion of work of this Section, remove all debris relating to the conduct of this portion of the work from the premises.

END OF SECTION C08306

SECTION C08411 ALUMINUM-FRAMED ENTRANCES & STOREFRONTS

PART I - GENERAL

1.1 SUMMARY
Section Includes: Aluminum Storefront, including:
(SITE ADAPT ARCHITECT TO VERIFY WHERE THERMALLY BROKEN FRAMES ARE REQUIRED)
1. Aluminum storefront with thermally broken frame.
2. Aluminum storefront with non-thermally broken frame for interior applications.
3. Aluminum Entrance System

B. Related Sections:
1. Sealants and Caulks: SECTION C07920
2. Finish Door Hardware: SECTION C08710
3. Glazing: SECTION C08800
C. Note: The owner's preference is for a product with a higher pre-consumer and/or post-consumer recycled content under the condition that there is not a significant increase in price between the product options. Contractor to submit options.

1.2 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 method indicated.
1. Wind Loads: Completed storefront system shall withstand wind pressure loads normal to wall plane indicated:
a. Exterior Walls:
2. Positive Pressure:
3. Negative Pressure:
b. Interior Walls (Pressure Acting in Either Direction):
4. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.
a. Without Horizontals: L/175 or 3/4-inch (19.1mm) maximum.
b. With Horizontals: L/175 or L/240 + 1/4-inch (6.4mm) for spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m).
5. Thermal Movement: Provide for thermal movement caused by 70 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
6. Air Infiltration: Completed storefront systems shall have 0.06 CFM/FT² (1.10 m³/h·m²) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).
7. Water Infiltration: No uncontrolled water when tested in accordance with ASTM E 331 at test pressure differential of 10 PSF (479 Pa) (or when required, field tested in accordance with AAMA 503). Fastener Heads must be seated and sealed against Sill Flashing on any fasteners that penetrate through the Sill Flashing.
8. Thermal Performance: When tested in accordance with AAMA 507 and NFRC 100:
a. Condensation Resistance Factor (CRF): A minimum of 60.
b. Complete System Thermal Transmittance U Value: 0.50 BTU/HR/FT²/°F or less.
c. Complete System Shading Coefficient: 0.70 or better.

SECTION C08320 ACCESS PANELS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Flush mounted access panels.

1.2 RELATED SECTIONS
A. Metal Fabrications: SECTION C05500
B. Gypsum Board Systems: SECTION C09250
C. Rough Carpentry: SECTION C06000
D. Painting: SECTION C09910

PART II - PRODUCTS

2.1 MANUFACTURER
A. Interior Access Panels:
1. Larsen Manufacturing Co., Minneapolis, Minnesota.
2. MIFBA, Chicago, IL 60641.
3. Substitutions are allowed as described in SECTION C01600.
B. Exterior Access Panels:
1. JL Industries, Flamington, MN 55435

2.2 ACCESS PANELS
A. General: Access panels shall meet or exceed the following:
1. Size: 16 cross indicated on the drawings
2. Material:
a. Door: 14 gauge galvanized steel, minimum
b. Frame: 16 gauge steel, minimum
2. Hardware:
a. Hinges: Concealed.
b. Locks: Flush screw driver operated steel cam.
3. Anchors: Manufacturer's standard for use intended.
4. Finish: Phosphate dipped steel with factory prime coat.
B. Exterior: Model XPA weather resistant flush access panel
1. Material:
a. Door: 2-inch thick insulated .040 aluminum
b. Insulation: Fiberglass
c. Frame: 16 gauge galvanized steel frame with 1-inch hinge
2. Hardware:
a. Hinge: Continuous stainless steel piano hinge
3. Handle: Provide (2) non-locking (H) die-cast zinc handles with chrome plating
4. Gasket: EPDM foam rubber bulb seal
5. Anchors: Manufacturer's standard for use intended.
6. Powdercoat Finish: Bronze (B)
7. Provide spring chain to prevent door swinging more than 110 degrees.

PART III - EXECUTION

3.1 INSTALLATION
A. Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

3.2 CLEAN-UP
A. Upon completion of work of this Section, remove all debris relating to the conduct of this portion of the work from the premises.

END OF SECTION C08306

SECTION 08411 ALUMINUM-FRAMED ENTRANCES & STOREFRONTS

PART I - GENERAL

1.1 SUMMARY
Section Includes: Aluminum Storefront, including:
(SITE ADAPT ARCHITECT TO VERIFY WHERE THERMALLY BROKEN FRAMES ARE REQUIRED)
1. Aluminum storefront with thermally broken frame.
2. Aluminum storefront with non-thermally broken frame for interior applications.
3. Aluminum Entrance System

B. Related Sections:
1. Sealants and Caulks: SECTION C07920
2. Finish Door Hardware: SECTION C08710
3. Glazing: SECTION C08800
C. Note: The owner's preference is for a product with a higher pre-consumer and/or post-consumer recycled content under the condition that there is not a significant increase in price between the product options. Contractor to submit options.

1.2 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 method indicated.
1. Wind Loads: Completed storefront system shall withstand wind pressure loads normal to wall plane indicated:
a. Exterior Walls:
2. Positive Pressure:
3. Negative Pressure:
b. Interior Walls (Pressure Acting in Either Direction):
4. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.
a. Without Horizontals: L/175 or 3/4-inch (19.1mm) maximum.
b. With Horizontals: L/175 or L/240 + 1/4-inch (6.4mm) for spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m).
5. Thermal Movement: Provide for thermal movement caused by 70 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
6. Air Infiltration: Completed storefront systems shall have 0.06 CFM/FT² (1.10 m³/h·m²) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).
7. Water Infiltration: No uncontrolled water when tested in accordance with ASTM E 331 at test pressure differential of 10 PSF (479 Pa) (or when required, field tested in accordance with AAMA 503). Fastener Heads must be seated and sealed against Sill Flashing on any fasteners that penetrate through the Sill Flashing.
8. Thermal Performance: When tested in accordance with AAMA 507 and NFRC 100:
a. Condensation Resistance Factor (CRF): A minimum of 60.
b. Complete System Thermal Transmittance U Value: 0.50 BTU/HR/FT²/°F or less.
c. Complete System Shading Coefficient: 0.70 or better.

1.3 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. Closeout Submittals:
1. Warranty: Submit warranty documents specified herein.
2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.

1.4 WARRANTY
A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.
1. Warranty Period: Manufacturer's one (1) year standard warranty commencing on the Substantial date of Completion.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturers:
1. YKK AP America Inc. (National Account)
2. Substitutions will not be accepted
B. Storefront Framing System:: Exterior Applications
1. Storefront System:
a. YKK AP YES 45 FI (Prototypical- Architect to verify if YES 45 TU for thermally broken storefront system where required)
b. Description: Center set, exterior glazed mullions and vertical mullions continuous; head and intermediate horizontal accepting a pressure plate cap cavity or shear block attachment.
2. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door frames, and indicated trim.
3. Thermal Barrier: Provide continuous thermal barrier by means of a poured and debridged polyurethane consisting of two-part chemically curing high density polyurethane which is isolated from the aluminum by YKK Therma Bond Plus®. Systems employing non-structural thermal barriers are not acceptable.

Storefront Framing System:: Interior Applications
YKK YES 45 TS: Non-thermal, center set glazed system for single, 1/4-inch glass
Entrance System:
YKK AP Series 20D Narrow Stile

2.2 MATERIALS
A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 Aluminum Alloy.
B. Aluminum Sheet:
1. Anodized Finish: ASTM B 209 (ASTM B 209M), 5005-H14 Aluminum Alloy, 0.050-inch (1.27 mm) minimum thickness.
2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080-inch (1.95 mm) minimum thickness.

2.3 ACCESSORIES
A. Manufacturer's Standard Accessories:
1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners.
2. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C864.
3. Flashing: 0.050 Aluminum Sill Flashing End Dams must have 3 point attachment.
4. Provide rubber safety gasket in Playground along sills and up full height along sides.
B. Refer to drawings for door hardware requirements.
1. For non-YKK projects use alternative panic device for side entry/exit openings (Von Duprin #3547)

2.4 FINISHES AND COLORS
A. YB5N Dark Bronze Anodized Plus
1. Verify color with drawings.
B. Anodized Finishing: Prepare aluminum surfaces for specified finish; apply shop finish in accordance with the following:
1. Anodic Coating: Electrolytic color coating followed by an organic seal applied in accordance with the requirements of AAMA 612. Aluminum extrusions shall be produced from quality controlled billets meeting AA-6063-T5.
C. High Performance Organic Coating Finish:
1. Type Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with YKK AP procedures and meeting AAMA 2605 specifications.

PART III - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS
A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions, and product carton instructions. The latest installation manual is available at www.ykkap.com.

3.2 INSTALLATION
A. General: Install system in accordance with manufacturer's published instructions, shop drawings, and within specified tolerances.
B. Use a 20 -25 mil "window flashing tape" consisting of a self adhesive butyl rubber material integrated on one side with a UV resistant polyethelene film and reverse.

3.3 ADJUSTING AND CLEANING
A. Adjusting: Adjust swing doors for operation in accordance with manufacturer's recommendations.
B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site. Legally dispose of debris.

END OF SECTION C08411

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia 30349-2998

INTERPLAN LLC
ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
PROJECT MANAGEMENT

604 COURTLAND STREET
SUITE 100
ORLANDO, FLORIDA 32804
PH 407.645.5008
FX 407.629.9124

SEAL:
THIS DOCUMENT IS "NOT FOR CONSTRUCTION" UNLESS THE ARCHITECT OR ENGINEER'S SIGNATURE AND SEAL APPEAR BELOW.

CHICK-FIL-A
SAR South Cobb Drive FSR
3100 South Cobb DR SE, Smyrna, GA 30080

FSR# 00810

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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PRINTED FOR BID
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