Frameworks Manufacturing, Inc.

Specification Section 08120

Interior Aluminum Door and Glazing Frames

PART 1 GENERAL

1.1 Section Includes

A. Prefinished aluminum door frames for interior use.
B. Prefinished aluminum window frames for interior use.
C. Prefinished aluminum framing systems for interior use.
D. Prefinished aluminum glass doors for interior use.

1.2 Related Sections

A. Section 08211 Flush wood doors
B. Section 08410 Aluminum entrances and storefront
C. Section 08520 Aluminum windows
D. Section 08710 Door hardware
E. Section 08800 Glass and glazing

1.3 References

A. AAMA 603.8 – Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum
B. AAMA 607.1 – Voluntary Guide Specification and Inspection Methods for Clear Anodize Finishes for Architectural Aluminum
C. AAMA 608.1 – Voluntary Guide Specification and Inspections Methods for Electrolytically Deposited Color Anodic Finished for Architectural Aluminum

1.4 Submittals

A. Submit under provisions of Section 01300
B. Product Data: Manufacturer's fabrication and installation instructions
C. Shop Drawings:

1. Provide standard installation details for typical architectural conditions
2. Provide details on connections to special construction and other custom features

D. Selection Samples: Provide aluminum chips in full range manufacturer's standard finished for architect's color selection

E. Verification Samples: Provide two samples of each type of framing member required, not less than 12 inches long, in selected finish

1.5 Quality Assurance

A. Manufacturer: Provide aluminum frames manufactured by a single firm specializing in production of this type of work for a minimum of five years

B. Fire Rated Assemblies:

1. In locations where fire rated openings are scheduled or required by regulatory agencies, provide fire rated aluminum frames that have been tested and certified for specified exposure by an agency acceptable to governing authorities
2. Provide labels permanently fastened on each frame that are within size limits established by NFPA and the testing authority
    a. Provide 20 minute labels
    b. Provide 45 minute labels
    c. Provide 90 minute labels
    d. Provide labels for openings as scheduled on the drawings

1.6 Delivery, Storage and Handling

A. Deliver frames cartooned to provide protection during transit and storage at project site

B. Inspect frames upon delivery for damage

1. Repair minor damage to polyester finish by using air drying spray enamel of matching color

2. Replace frames that cannot be satisfactorily repaired

C. Store frames at project site under cover and as near as possible to final installation location. Do not use covering material that will cause discoloration of aluminum finish

1.7 Environmental Requirements

A. Do not begin installation of aluminum frames until area of work has been completely enclosed and interior is protected from the elements

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 Manufacturers

A. Provide products manufactured by Frameworks Manufacturing, Inc.

B. 3801 Yale Houston, TX 77018; (713) 692-5222 (877) 278-5222 Fax (713) 692-1391; website: www.frameworks.com email: info@frameworks.com

2.2 Materials

A. Aluminum: Controlled alloy billets of 6063 T5, to assure compliance with tight dimensional tolerances and maintain color uniformity.

2.3 Extruded aluminum frames

A. Frameworks Type-1 frame system: Provide frames with the following characteristics:

1. Rectilinear design

2. 1-1/2 inch face profile

3. 9/32 inch return

4. 0.070 inch rabbet wall thickness

5. Throat sizes 3-3/4”, 4-7/8”

6. Adjustable throat frames expandable from 3-5/8” up to 7-1/4”

B. Frameworks Type-2 frame system: Provide frames with the following characteristics:

1. Rectilinear design

2. 1-1/2 inch face profile

3. Snap on trim: 1-1/4 inch, 1-1/2 inch or 2” wide

4. Other trim options as selected from manufacturer’s catalogue

5. 0.070 inch rabbet wall thickness

6. Throat sizes 3-1/2”, 3-3/4”, 4-7/8”

7. Adjustable throat frames expandable from 3-5/8” up to 7-1/4”

2.4 Fabrication

A. Pre-machine jambs and prepare for hardware, with concealed reinforcement plates, drilled and tapped as required and fastened within frame with concealed screws.

B. Provide corner reinforcements and alignment clips for precise butt or mitered connections.

C. Fabricate all components to allow secure installation without exposed fasteners.

2.5 Finishes

A. Factory finish extruded frame components so that any part exposed to view upon completion of installation will be uniform in finish and color.

B. Polyester Finish: Comply with AAMA 603.8; multiple-stage electrostatically applied thermoset polyester finish, baked to assure hardness.

1. Color: Custom paint color to match architect sample
2. Color: Manufacturer's standard bronze (BRZ)
3. Color: Manufacturer's standard gray (GRY)
4. Color: Manufacturer's standard black (BLK)
5. Color: Manufacturer's standard white (WHT)

C. Clear anodic coating: Comply with AAMA 607.1

1. Class 2, AAM12C22A31 clear anodized coating, 0.4-.07 mill thickness minimum
2. Class 1, AAM12C22A41 clear anodized coating, 0.7 mill thickness minimum

D. Color anodic coating: Comply with AAMA 608.1

1. Class 2, AAM12C22A34 color coating electrolytically deposited, 0.4-0.7 mill thickness minimum
2. Class 2, AAM12C22A44 color coating electrolytically deposited, 0.4-0.7 mill thickness minimum
3. Color: Bronze anodized
4. Color: Black anodized

2.6 Aluminum Doors

A. Barn Style Sliding Door

1. Door Stiles and rails to have tubular design
2. Stiles

a. Narrow Stile (2-1/8”)

b. Medium Stile (3-3/4”)

c. Wide Stile (5”)

3. Rails

a. 1-1/2” Top Rail

b. 3-3/4” Top/Bottom Rail

c. 6” Top/Bottom Rail

d. 9-1/2” Bottom Rail

4. Snap-in glass stops with factory applied glazing gaskets for 1/4”, 3/8”, or 1/2” glass

5. Doors will be properly prepped for hardware with required backup plates (Hardware by others)

6. Sliding door track to be installed to properly blocked ceiling or wall above frame, or to header clip (by frameworks) attached to frame header. Sliding track to be provided with snap on covers.

7. Sliding Door Hardware

a. LE Johnson #1125 Rollers (1 roller per 75 lbs)

b. LE Johnson #1155 Stop provided in track

c. Concealed Door Guide by Frameworks

PART 3 EXECUTION

3.1 Examination

A. Examine project conditions and verify that the work of this section may properly commence. Do not proceed with installation until unsatisfactory conditions have been corrected.

B. Verify wall thickness does not exceed standard tolerances allowed by specified frame throat sizes.

3.2 Installation

A. Comply with frame manufacturer's printed installation instructions and approved shop drawings. Strictly adhere to maintaining specified wall thickness to insure dimension does not exceed frame throat size specified.

B. Install frames plumb and square, securely anchored to substrates with fasteners recommended by frame manufacturer.

C. Install partition components in the longest possible lengths, with no component less than 4 feet. Fasten to suspended ceiling grid at 48 inches on center maximum, using #6 sheet metal screws or other fasteners approved by frame manufacturer

1. Use concealed installation clips to assure that splices and connections are tightly butted and properly aligned

2. Secure clips to main structural components and not to snap-in or trim members.

3. Do not use screws or other fasteners that will be exposed to view when installation is complete.

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.

3.4 Protection

A. Provide protection required to assure that frames will be without damage or deterioration upon substantial completion of the project.