**Aluminum Blast Resistant Windows**

**Section 085123 & 085653**

**Part 1 - General**

1.01 SECTION INCLUDES

Extruded assembled aluminum frames and glazing. Coordinate with Sections 085000.

1.02 REFERENCES

American Society for Testing Materials (ASTM): 1. B 221:

“Specifications for Aluminum-Alloy Extruded Bars, Rods, Wire,

Shapes, and Tubes.”

Architectural Aluminum Manufacturers Association (AAMA):

AAMA 603: Voluntary Performance Requirements and Test

Procedures for Pigmented Organic Coatings on Extruded

Aluminum.

1.03 SUBMITTALS

Procedures: In accordance with General Conditions.

Shop Drawings: Indicate frame thickness and configuration,

location of cutouts for hardware, reinforcement and finish. Show

profiles, types, dimensions, anchorage construction, relationships

to adjacent structure and interface with adjacent materials. Cross

reference to Schedules.

Sample for Verification of Painted Finishes: Submit two samples

on 3 by 5 inch standard “Q” panel.

Product data including illustrated isometric installation

instructions.

1.04 SEQUENCING AND SCHEDULING

Do not begin fabrication of frames until hardware

templates have been received from hardware supplier.

1.05 QUALITY ASSURANCE

Installer Qualifications. Capable of installing and authorized by

manufacturer to install all products specified in this Section.

1.06 DELIVERY, STORAGE, AND HANDLING

Deliver, store, and handle frames in a manner to prevent damage

or deterioration.

Provide packaging such as cardboard or other containers,

separators, banding, spreaders, and paper wrappings to protect items.

Follow special storage and handling requirements of

manufacturer.

**Part 2 - Products**

2.01 ACCEPTABLE MANUFACTURER

AVALON Eagle Blast Series, as manufactured by AVALON

INTERNATIONAL ALUMINUM, LLC. Portland, Oregon, 1-800-

678-0566, is specified as design standard.

Glazing Frames: Snap-in type stops with manufacturer’s standard

neoprene® gaskets. **Glass adjacent to metal without intervening**

**gasket not permitted.**

Substitutions: Acceptable substitution subject to provisions of

Sections 2.01 (A) and (D) must be approved ten days prior to bid

date.

Other Substitutions: None permitted.

Finish: Thermal-setting powder coating.

1. Type: Hybrid Epoxy-Polyester blend. Minimum film thickness

of 1.8 mils required.

2. Application: Finish must be factory applied to ensure

controlled film thickness and smooth surface.

3. Color: Standard or Custom color as selected by Architect.

2.02 FRAMES

Aluminum alloy, extruded and fabricated to shapes as required for

each application, for field installation.

Thickness of Main Frame Members: 0.062 inch nominal. Increase

to 0.130 inch at anchorage.

Fasteners and Hardware: Aluminum, stainless steel, or other

non-corrosive materials compatible with aluminum and acceptable

to frame manufacturer, countersunk style. Exposed fasteners not

permitted.

**Part 3 - Execution**

3.01 INSTALLATION

Install frames in accordance with manufacturer’s instructions.

Rough opening to be framed out using steel studs, not steel track.

Coordinate with wall construction for anchor placement.

Install plumb and true in line, with all necessary clips, anchors,

and fastenings. **Direct attachment of frame to metal stud**

**required.**

Coordinate installation of glass and glazing to comply with

Section 09900 “Glazing” for glazed openings.

Install reinforcement channels between two abutting frames.

Anchor to structure and floor.

Accurately join, fit, and reinforce corners to flush hairline joints.

3.02 TOLERANCES

Install frames to permit hanging wood doors to AWI

requirements as specified in Section 08211.

3.03 ADJUSTING AND CLEANING

Adjust hardware for smooth and balanced door movement.

Clean completed system promptly after erection taking care to

avoid damage to finishes.