

**CITY OF BEVERLY
ADDENDUM NO. 1, March 6, 2015**

**RE: INVITATION FOR BID
#15-001 Purchase of Four Door Assemblies**

**FROM: David Gelineau
Purchasing Agent
191 Cabot Street
Beverly, MA 01915**

Please acknowledge receipt via electronic mail, telephone, or facsimile, sign and include with your bid submittal.

TO: ALL PROSPECTIVE BIDDERS

This addendum forms a part of the Invitation for Bids from the City of Beverly for:
#15-001 Purchase of Four Door Assemblies.

Please **Delete**: Section 08 014 23 Ultimate Clad 2 ¼” Inswing French Door and Ultimate Operable Awning Transom – Storm Plus IZ3

Please **Add: Updated Section 08 014 23** Ultimate Clad 2 ¼” Inswing French Door and Ultimate Operable Awning Transom – Storm Plus IZ3 **Attached and made a part of this addendum.**

Please sign this acknowledgement of receipt of the Addendum No.1 and return with your bid.

Signature of Bidder

UPDATED

Section 08 014 23

Ultimate Clad 2 ¼" Inswing French Door and Ultimate Operable Awning Transom – Storm Plus IZ3

Part 1 General

1.1 Section Includes

- A. COASTAL SPECIFICATION: Specification for Ultimate clad 2 ¼" Inswing French Door and frame and operable transom, complete with glazing, weather strip, hardware, insect screen, simulated divided lite, jamb extension, and specified anchors, attachment and accessories. Contract includes provision of four units described above.

1.2 References

- A. American Society for Testing and Materials (ASTM):
 - 1. E283: Standard Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors.
 - 2. E330: Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
 - 3. E547: Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic.
 - 4. E2190: Specification for Sealed Insulating Glass Units.
 - 5. C1036: Standard Specification for Flat Glass.
 - 6. E1996: Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes.
 - 7. E1886: Standard Test Method for Performance of Exterior Windows, Curtain Walls, Door and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
- B. American Architectural Manufacturer's Association / Window and Door Manufacturer's Association (AAMA / WDMA/CSA):
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440-05: Standard/Specification for windows, doors, and unit skylights.
 - 2. AAMA/WDMA/CSA 101/I.S.2/A440-08: North American Fenestration, Standard/Specification for windows, doors, and skylights.
 - 3. AAMA/WDMA/CSA 101/I.S.2/A440-11: North American Fenestration, Standard/Specification for windows, doors, and skylights.
- C. WDMA I.S.4: Industry Standard for Water Repellent Preservative Treatment for Millwork.
- D. Window and Door Manufacturer's Association (WDMA): 101/I.S.2 WDMA Hallmark Certification Program.
- E. Sealed Insulating Glass Manufacturer's Association / Insulating Glass Certification Council (SIGMA/IGCC).
- F. American Architectural Manufacturer's Association (AAMA): 2605: Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels.
- G. National Fenestration Rating Council (NFRC):
 - 1. 101: Procedure for Determining Fenestration Product Thermal Properties.
 - 2. 200: Procedure for Determining Solar Heat Gain Coefficients at Normal Incidence.
- H. Window Covering Manufacturer's Association
 - 1. A100.1 Standard for safety of corded window covering products

1.3 System Description

- A. Design and Performance Requirements:

Product	Air Tested to psf	Water Tested to psf	Structural Tested to psf	Certification Rating	Design Pressure (DP)	Overall Width		Overall Height		# of Panels
						in	mm	in	mm	
Clad Ultimate 2 ¼" Inswing French Door Storm Plus IZ3 60100 (XX)	1.57	8.25	82.5	LC-PG55-SHD	+55/-65	72 5/8	(1845)	86"		2
Clad Ultimate Casement Storm Plus IZ3 to match Ultimate French Door	1.57	9.75	97.5	CW-PG65-C	65	72 5/8	1845	19 1/8"		(2) mullid

Note: There will be four complete sets as described above provided; two complete sets shall have the principal operating leaf on the left, and two sets shall have the principal operating leaf on the right.

- 1 Units shall be designed to comply with WDMA certification per ASTM E 1996 and AAMA/WDMA/CSA 101/I.S.2/A440-05, 08 & 11.
- 2 Air leakage shall not exceed (≤ 3) cfm per square foot of overall frame when tested at 1.57 psf according to ASTM E283.
- 3 No water penetration when tested at (DP55-8.25) psf according to ASTM E547.
- 4 Units shall be designed to comply with ASTM E1996 for Wind Zone 3, Missile Level D impact and cycle (+DP55/-DP65) psf.
- 5 Units shall be designed to comply with ASTM E330 for structural performance, when tested to +82.5/-97.5) psf.

5.2 Submittals

- B. Shop Drawings: Submit shop drawings showing entire system, including but not limited to: Clad 2 ¼" Inswing French Door and frame and operable awning transom, complete with glazing, weather strip, hardware, insect screen, simulated divided lite, jamb extension, and specified anchors, attachment and accessories.
- A. Product Data: Submit catalog data for products described above.
- B. Samples:
 1. Submit corner section.
 2. Include glazing system, quality of construction and specified finish.
- C. Quality Control Submittals: Certificates: submit manufacture's certification indicating compliance with specified performance and design requirement under provision of section 01 33 23.

5.3 Quality Assurance

- A. Requirements: consult local code for IBC [International Building Code] and IRC [International residential Code] adoption year and pertinent revisions.

5.4 Delivery

- A. Deliver in original packaging and protect from weather

5.5 Storage and Handling

- A. Store door panel flat on a level surface in a clean and dry storage area above ground to protect from weather.
- B. Condition doors to local average humidity before hanging.

5.6 Warranty

Maximum available from manufacturer- Must be a Minimum of One Year From Date of Delivery to the City of Beverly.

Part 2 Products

6.2 Manufactured Units

- A. Description: Factory assembled Aluminum Clad Wood 2 ¼" Ultimate Inswing French Door – Storm Plus IZ3 and operable awning transom (2 units mullied) as manufactured by Marvin Windows and Doors, Ripley, Tennessee.

6.3 Frame Description

- 1. Interior: clear Vertical Grain Douglas Fir with factory applied clearcoat.
- 2. Kiln dried to moisture content no greater than twelve (12) percent at time of fabrication.
- A. Frame exterior clad with 0.050" (1.3mm) thick extruded aluminum
- B. Frame width: 6 9/16" (167mm).
- C. Frame thickness: 1 1/16" (27mm)
- D. Bronze fiberglass reinforced plastic (frp) sill 0.100" (2.5mm) thick, Mahogany interior sill liner.

6.4 Panel Description

- 1. Interior: Clear vertical Grain Douglas Fir with factory applied clearcoat.
- 2. Kiln dried to moisture content no greater than twelve (12) percent at time of fabrication.
- A. Panel exterior clad with 0.055" (1.4mm) thick extruded aluminum
- B. Panel thickness: 2 ¼" (57mm)
- C. Top rail and stile width: 6" (152mm)
- D. Bottom rail height: 8 1/8" (206mm)
- E. Panel corners glued and fastened with 5/8" x 4 inch (16mm by 102mm) fluted hardwood dowels.

6.5 Glazing

- A. Select quality complying with ASTM C 1036. Shall comply with 16 CFR 1201 Safety Standard for Architectural Glazing Materials.
- B. Glazing Method: Insulating laminated annealed interior and tempered exterior
- C. Glass Type: Clear; Low-E pyrolytic coating on 3rd surface and argon gas fill.
- D. Glazing Seal: Wood interior glazing stops fastened with 1 1/2" (38mm) nails, sealed with silicone beads at perimeter

6.6 Finish

- A. Exterior: Aluminum Clad. Fluoropolymer modified acrylic topcoat applied over primer. Meets or exceeds AAMA 2605 requirements.
 - 1. Clad color options: Stone White
 - 2. Interior Finish Options:
 - 1. Factory applied water-borne acrylic enamel clear coat. Applied in two separate coats with light sanding between coats.

6.7 Hardware

- A. GENERAL: All concealed hardware is to be manufacturer-supplied 316 stainless steel; if 316 stainless steel is not available for a particular unit of hardware, manufacturer-supplied 304 stainless steel is the next acceptable material. Continuity of concealed hardware is not necessary; different parts can be of different material as long as they are concealed. All exposed units of hardware are as described herein. All handle sets shall be lever type traditional. All other hardware shall be traditional.
- B. Hinges: 316 Stainless Steel
 - 1. Door: 4 1/2" x 4 1/2" ball bearing hinges with square corner; Transom: standard configuration in 316 stainless steel.
 - 2. Four hinges on units less than 95 ½" (2426mm); five on units over 95 ½" (2426mm)

3. Finish: US32D
- C. Door: Multi-point traditional Handle Set: PVD oil rubbed bronze finish; Transom: standard configuration in PVD oil rubbed bronze finish.
- D. Locking System: 316 Stainless Steel
 1. Active panel: Marvin exclusive concealed multi-point locking system. Stainless steel head and shoot bolts operated from lever set. One inch dead bolt.
 2. Inactive panel: Stainless steel head and shoot bolts operated from traditional lever set in PVD oil rubbed bronze finish.

6.8 Weather Strip

- E. Head jamb and side jambs to have two sets of bulb weather strip maintaining contact with door panels. Color: black
- F. Threshold to have bulb weather strip maintaining contact with bottom of panel. Color: black
- G. Vinyl panel drip applied to bottom rail. Color: black.
- H. Painted aluminum watershed and weep system at sill – color: bronze.

6.9 Jamb Extension

- A. None

6.10 Insect Screen (Rectangular Inswing Units Only)

- A. Ultimate Swinging Screen (Rectangular Inswing Unit Only)
 1. Extruded aluminum swinging frame. Ultimate swinging screen with screen and glass insert shall match exterior clad frame color. Glass insert shall be clear, tempered.
 2. Fiberglass screen mesh with bronze Aluminum.
 3. Swinging screen has 4 hinges per panel and a factory installed Z-bar.
 4. Ovoid exterior / paddle interior handle.

6.11 Simulated Divided Lites (SDL)

- A. 5/8" (16mm) wide, with internal spacer bar.
- B. Muntins: Vertical Grain Douglas Fir
- C. Muntins adhere to glass with double coated acrylic foam tape.
- D. Pattern: Rectangular
- E. Finish: Match panel finish
- F. Sticking:
 1. Standard: Ovolo

6.12 Accessories and Trim

- A. Installation and Hardware Accessories:
 1. Factory installed vinyl nailing/drip cap
 2. Installation brackets: Contractor to verify type and size to accommodate IZ3 requirements prior to submitting bid.

Part 3 Execution

NOT USED

End of Section