

BELLASTONE PRODUCT SPECIFICATIONS

PART 1 GENERAL

1.01 Scope of Work

- A. Furnish all necessary labor, material and equipment for complete installation of BellaStone and related work as shown on drawings or specified herein.

1.02 References

- A. ASTM E 90 – Sound Transmission Loss Test
- B. ASTM 413 Classification for rating Sound Insulation
- C. ASTM 1332 Standard Classification for Determination of Outdoor-Indoor Transmission Class
- D. ASTM 97-02 – Standard Test Method for Absorption and Bulk Specific Gravity of Dimension Stone
- E. ASTM E 84-07 Surface Burning Characteristics of Building Materials
- F. ASTM D 1929 Determination the Ignition Temperature of Plastics
- G. ASTM C 1363-05 – Thermal Performance Test
- H. ASTM C 1353-98 – Standard Method using Taber Abraser for Resistance of Dimension Stone Subjected to Foot Traffic
- I. ASTM D 5206 Windload resistance of Rigid Plastic Siding
- J. ASTM D 2843 Density of Smoke from Burning or Decomposition of Plastics
- K. ASTM D 3679 Standard Test method for Ridged PVC siding
- L. ASTM B 117 Standard Specification for operating salt spray (fog) testing apparatus
- M. ASTM D 696 Standard test method for Coefficient of Linear Thermal Expansion of Plastics
- N. ICC AC 92 and AC181 Freeze thaw cycling
- O. ASTM D 2565 Standard practice for Xenon-ARC Exposure of Plastics Intended for Outdoor Applications
- P. ASTM D 635 Standard Test Method for rate of burning and/or extent and time of Burning of self-supporting plastics in a horizontal position.
- Q. ASTM E 119 one hour fire rating
- R. NFPA 268 standard test method for determining ignitibility of exterior wall assemblies using radiant heat energy source.
- S. ASTM D 4226 standard Test Method for Impact Resistance of Rigid Poly Building Products
- T. ASTM C97 Water Absorption

1.03 Submittals

- A. Submit samples of BellaStone design, size and color for approval.

1.04 Quality Assurance

- A. Manufacturer to certify that (stone) as supplied meets or exceeds the conditions specified in section 2.02 Materials.

1.05 Delivery, Storage and Handling

- A. Deliver products in original packaging.
- B. Each box to be clearly marked with the style, color and identifying lot number.
- C. Prior to application, BellaStone and accessories are to be stored in an area that is clean, dry and out of direct sunlight.
- D. Handle material in a manner to prevent damage.

1.06 Warranty

- A. Upon completion provide a manufacturer's written, 50 yr. residential limited warranty and 25 years Commercial Limited Warranty.

PART 2 PRODUCTS

2.01 Manufacturer

- A. Material to be supplied by Crane Performance Siding,
1441 Universal Rd Columbus, OH 43207.
- B. (800) 366-8472 www.exteriorproffolio.com

2.02 Materials

- A. BellaStone products shall be made of modified polyethylene/polyurethane Composite.
BellaStone meets or exceeds the following properties:

1. Modulus of Elasticity	ASTM D 638	130k psi
2. Coefficient of Linear Expansion	ASTM D 696	3.17 x 10 ⁻⁵ in./in. F°
3. Polyurethane Density		2.0 lb./cu/ft
4. Water absorption	ASTM D 1037	>3%

- B. Fire Resistance Characteristics:

1. Average Linear Burning Rate	ASTM D 635	20.1 mm/min Class CC1
2. Flame Spread	ASTM E 84	160 Class C
3. Smoke Density	ASTM E 84	750
4. Spontaneous Ignition Temperature	ASTM D 1929	407°C (765°F)
5. Flash Ignition Temperature	ASTM D 1929	382°C (720°)
6. Average Smoke Density	ASTM D 2843	5.4%

- C. Performance

1. Windload	ASTM 5206	73psf 230mph
2. R-value	ASTM 1363	4.26
3. Impact Resistance		31.33ft.lb. @ 75° angle
4. Sound Transmission Class	ASTM E90	29
5. Outdoor-Indoor Transmission Class	ASTM E 90	25
6. Abrasion Resistance	ASTM C 1353	23.3

2.03 BellaStone panels and Columns Dimensions and Descriptions:

Main Z- panel	2 ¼" profile thickness, overall exposure length 50", exposure height 24". Color Torino, Tuscan.
Filler panel	2 ¼" profile thickness, overall exposure length 50", exposure height 24". Color: Torino, Tuscan
Columns	38" height 25"x25" square 16" height 25"x25" square 38" height 14"x14" square 16" height 14"x14" square All columns available in Color: Bordeaux, Torino, Tuscan

2.04 Accessories

Accessories to be equal to dimensions and properties as shown in the drawing and as required for complete installation.

Schedule of Accessories

1. Quoin Corner:
 - a. 24" height
 - b. 12" height
2. Starter Strip
3. Mortar Sealant
4. Architectural Essentials Accessories
 - a. BellaStone Trim Board
 - b. CraneBoard Trim Board
 - c. Window Lineal
 - d. Outside Corner Post
 - e. Stone Receiver
 - f. Bella Bracket
 - g. Receiver Transition Trim
 - h. Window Lineal Transition Trim
 - i. Window Lineal Starter Strip
 - j. Water Table
5. Stone Accents Accessories
 - a. Window Lineal
 - b. Ledger

2.05 Fasteners

- A. Provide weather resistant fasteners as recommended by manufacturer.

PART 3 EXECUTION

3.01 Examination

- A. Confirm that all critical dimensions are as specified in the drawings.
- B. Examine substrate flaws and defects.

3.02 Preparation

- A. Any substrate flaws or defects must be repaired before BellaStone is applied.
- B. BellaStone must be applied to walls that are in plane and must be installed on a continuous nailable surface.

3.03 Installation

- A. Install in accordance with the latest edition of the BellaStone Installation Guide published by Exterior Portfolio by Crane.

3.04 Field Quality Control

- A. After installation of cladding, check entire surface for obvious flaws or defects.
- B. Replace and repair any problem areas.

3.05 Clean-Up

- A. Upon completion of the BellaStone application, the entire area is to be cleaned, removing all scrap, packaging and unused building materials.