



# Volterra HDF™

## Specification

### 1.01 Scope

- A. Provide all labor, materials, masking, tools and equipment necessary to install the Volterra HDF product.

### 1.02 Related Sections

- A. 03 - Concrete
- B. 04 - Unit Masonry
- C. 05 - Light Gauge Cold-Formed Steel Framing
- D. 06 - Carpentry
- E. 07 - Exterior Insulation Finish System, Sealants, Flashing
- F. 09 - Portland Cement Plaster, Gypsum Plaster

### 1.03 References

- A. All work shall conform to local building codes and other regulations governing work performed at the job site.
- B. All work shall conform to requirements and recommendations of Manufacturer's current installation guides.

### 1.04 Description

- A. Volterra HDF is a two component mixture of urethane resin with a closed cell structure.
- B. Acceptable manufacturer: Volterra Architectural Products LLC, Phoenix, Arizona.
- C. Density requirements shall be a minimum of 8 lbs. per cubic foot for low traffic areas, 12 lbs. per cubic foot for medium traffic areas and 18 lbs. per cubic foot for high traffic areas.
- D. Fire rated material may be used as an option. A Class A fire rated material that meets or exceeds ASTM E84-90 flame spread index.

### 1.05 Submittals

- A. The contractor shall make/ construct and submit appropriate samples of the proposed material to the architect and/or owner for approval.
- B. Manufacturer's Information:
  - 1. Submit manufacturer's product information including: shop drawings, specifications, warranty and installation instructions and fire testing report if applicable.

### 1.06 Quality Assurance

- A. Qualifications
  - 1. Manufacturer shall be Volterra Architectural Products, LLC
  - 2. The Applicator or Contractor shall be licensed in the state which work is required and have a minimum of 5 years experience installing decorative materials.

### 1.07 Delivery, Storage and Handling

- A. All materials shall be delivered to the job site in the original, unopened packaging with labels intact. Upon arrival, materials shall be inspected for physical damage. Questionable material shall be discarded and not used.
- B. All material shall be stored in a dry, covered location out of direct sunlight and protected from rain.

### **1.08 Job Conditions**

- A. Existing Conditions:
  - 1. The applicator shall have access to electric power, clean potable water and a clean area at the location where the Volterra HDF is to be installed.
- B. Environmental Conditions:
  - 1. The ambient air temperature shall be determined by the adhesive manufacturer.
- C. Protection:
  - 1. Adjacent areas and materials shall be protected from damage, spills and drops.
  - 2. The Volterra HDF adhesive and sealant must be protected from the elements until adhesive is fully cured.

### **1.09 Design Responsibility**

- A. It is the responsibility of both the specifier and the purchaser to determine if the product is suitable for its intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design detail, attachment details, shop drawings etc. Volterra Architectural Products, LLC is not liable for any errors or omissions in design, detail, attachment methods etc., whether based upon the information prepared by Volterra Architectural Products LLC or otherwise, or for any changes made with the purchaser, specifier or designer.

### **1.10 Maintenance**

- A. Maintenance and repair shall follow the procedures in the Application Guide.
- B. Volterra HDF was designed to eliminate most all maintenance. However, as all building materials, it will require some periodic cleaning.
- C. Sealants and flashing should be inspected on a regular basis.
- D. Extra material shall be delivered to owner from the same production run as products installed. Protect and store extra material indoors in a clean, dry area.

### **1.11 General**

- A. All products shall be supplied by Volterra Architectural Products, LLC or its authorized dealers. Substitutions or additions of other manufacturer's material will void warranty.
- B. Moisture resistance: non water absorbing.
- C. Ultra Violet: if properly painted, no effect.
- D. Solvent Resistance: resistant.
- E. Insulation: higher R-value than fiberglass bat and EPS

### **1.12 Materials**

- A. Volterra HDF – decorative urethane elements
  - 1. Minimum solid wall thickness of ¾" for non solid back truss tails, corbels, brackets, quoins, tile vents, etc.
  - 2. Minimum solid thickness of 1" for product that spans a distance of 10" such as shutters, planking, beams, etc.
- B. Mechanical Fasteners
  - 1. Specified by design professional
- C. Adhesive
  - 1. PL Premium Urethane Adhesive as manufactured by Chemrex.

### **1.13 Equipment**

- A. Conventional wood working tools such as table saw, miter saw, jig saw and hand saw as needed.

### **1.14 Inspection**

- A. Examination of substrate: Ensure substrate is suitable for the installation of Volterra HDF. It must be securely fastened, free of contaminants, dry, etc.

**1.15 Substrate Preparation**

- A. All substrates shall be fastened, attached, cured according to the manufacturer, ASTM, UBC, or local building requirements.
- B. All surfaces must be clean and free of bond-inhibiting materials such as dirt, dust, rust, grease, oil, efflorescence, mildew, fungus, form-release agents, or any other contaminants.
- C. Remove and repair any loose paint, mortar, stucco, concrete, or masonry before installation of Volterra HDF.

**1.16 Installation**

- A. Install all materials in compliance to Volterra Architectural Products, LLC installation guidelines.

**1.17 Quality Control**

- A. The Contractor shall be responsible for the installation of the materials.
- B. Volterra Architectural Products, LLC assumes no responsibility for job site inspections unless otherwise contracted in writing prior to bidding process.

**1.18 Clean-up**

- A. All surrounding areas, where the Volterra HDF materials were installed shall be left free of debris and foreign substances resulting from the contractor's work.
- B. Repair and replace all damaged Volterra HDF product.

**1.19 Protection**

- A. The materials shall be protected from weather and other damage until permanent protection in the form of flashings, sealant, etc. are installed.