

Les Produits Architecturaux  
**Colico Inc.**  
Architectural Products  
Facade Systems Inc. (647) 923-8967  
blair@facadesystemsinc.com

4099, boul. St-Jean-Baptiste  
Montreal, Qc. H1B 5V3  
1-877-640-8928  
514-640-8926

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## **Section 07 42 00 – Aggregate Faced Architectural Panels**

### **Part 1 – General**

- 1.01 Description of work
  - 1. Provide all materials, labor, tools, equipment and services required to install Steni Nature exposed aggregate composite panels.
- 1.02 RELATED SECTIONS
  - 1. 07 05 43 Thermally Broken Subsystem
  - 2. 05100 Structural framing
  - 3. 05400 Metal Framing
  - 4. 07200 Insulation
  - 5. 07600 Metal flashing
  - 6. 09800 Finishes
- 1.03 REFERENCES
  - 1. ASTM E-84-05 Standard Test Method For Surface Burning Characteristics Of Building Materials
- 1.04 SUBMITTALS
  - 1. Product data including : preparation instructions and recommendations, storage and handling, and installation methods.
  - 2. Samples : Architects selection from full range of color and texture combinations.
  - 3. Two copies of the manufacturer's literature for the composite panels.
  - 4. Provide copy of manufacturer's 60 year warranty.
- 1.05 QUALITY ASSURANCE
  - 1. Manufacturer shall have a minimum of 40 years experience in manufacturing composite wall panels of this nature.
  - 2. Installer to have successfully completed installations of similar size and scope as specified in this section. References provided upon request.
  - 3. Maximum deviation from vertical and horizontal alignment of erected panels shall be no more than 6mm in 6.1m.
- 1.06 DELIVERY, STORAGE AND HANDLING
  - 1. Delivery: Deliver materials in original, unopened packages bearing brand names and identification of manufacturer.
  - 2. Handling: Exercise care in unloading, storing, and installing panels to prevent damage.
  - 3. Storage: Store panels on skids above grade and cover in a dry place that will allow ventilation.

## **PART 2 – PRODUCTS**

### **2.01 MANUFACTURERS**

1. The design is based on Steni Nature Aggregate Composite Wall Panels as manufactured by Steni AS and distributed in Canada by :  
Colico Architectural Products Inc.; 4099, boul. St-Jean-Baptiste, Montreal, Qc., H1B 5V3, Telephone 1 877 640-8928
  - a. Substitutions are not permitted
  - b. Substitutions will only be considered if received in writing no less than 10 days prior to bid date and must comply fully with specified requirements.

### **2.02 MATERIALS**

1. Panels shall be Steni Nature Aggregate Composite wall Panels as manufactured by Steni AS
2. Composite panels shall have a Class A building material rating when tested in accordance with ASTM E84-05 and shall exhibit a flame spread of 10 or less and a smoke developed rating of 60 or less.
3. Composite panel thickness: 8mm or 5/16'' (nominal).
4. Composite panel weight: 14.63 kg/square meter or 3 lbs/square foot.
5. Composite panel finish: select from Fine Micro, Fine, Medium, Corse or Tumble
6. Composite panel color: select from manufacturer's standard colors range.

### **2.03 FABRICATION**

1. Composition: Panels shall be composed of natural stone aggregate, fiberglass reinforced polymer resin with limestone filler manufactured in a continuous on-line process, which chemically bonds into matrix to form an integral composite of all elements.
2. Tolerances
  - a. Panel bow shall not exceed 0.8% of panel overall dimension.
  - b. Length and width shall not vary by more than 1.5mm or 1/16''.
  - c. Panels shall be square.
3. Standard panel length shall not exceed 3.495m or 11' 5 1/2''.
4. Maximum panel width is 1213mm or 3'11 3/4''
5. Fabricate trim, flashings, and accessories to detailed profiles.

### **2.04 ACCESSORIES**

1. All exposed fasteners shall be #410 stainless and have a colored head to match the aggregate as closely as possible. Fasteners shall be supplied by panel distributor.
2. All extrusions shall have a Kynar 500 finish or equivalent and supplied by panel distributor. Color to be selected from manufacturer's standard color chart.
3. Recommended sealants shall be Dow "CWS" and supplied by panel distributor.
4. All sheet metal flashings shall meet requirements of section 07600.

## **PART 3 – EXECUTION**

### **3.01 INSPECTION**

1. Panel substructure shall be level and plumb
2. Panel substructure shall be structurally sound as determined by architect/engineer
3. Panel substructure shall be free of defects detrimental to work.

4. Panel installer shall inspect substructure and not proceed with panel erection until any deviations are corrected.

### 3.02 INSTALLATION

1. Erect panels level and plumb, in proper alignment and relation to substructure framing and established lines.
2. If field cutting or drilling of panels is required, follow manufacturer's instructions and recommendations.
3. Where panel and aluminum materials come in contact with dissimilar materials, PVC compressive tape shall be installed to insulate between the dissimilar materials.

### 3.03 CLEANING AND PROTECTION

1. Dispose excess materials and remove debris from site after completion.
2. Upon completion of installation and curing of adhesive and sealants, clean panels as per manufacturer's recommendations.
3. Protect installed panels from subsequent construction activities until final acceptance by architect and owner.

**End of section**