## SECTION 07 42 43.07 - ENGINEERED STONE WALL PANELS - ADHESIVE ATTACHED

PART 1	GENERAL
1.1	ADMINISTRATIVE REQUIREMENTS
A. 1. related trad 2. sequencing	Pre-Installation Conference: Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder] installer, and es. Review: Project conditions, manufacturer requirements, delivery and storage, staging and , and protection of completed work.
1.2	SUBMITTALS
A. 1. 2. 3.	Action Submittals: Shop Drawings: Illustrate products, installation, and relationship to adjacent construction. Product Data: Manufacturer's descriptive data and product attributes. Samples: [Selection samples.] [Verification samples.]
B. 1. requiremen	Informational Submittals: Certificate of Compliance: Certification that installed products meet specified design and performance ts.
C. 1. 2.	Closeout Submittals:  Maintenance Data.  Extra materials: [] panels in [ x] size.
1.3	QUALITY ASSURANCE
A. 1.	Regulatory Requirements: Flame spread rating: Class A, tested to ASTM E84.
B. wall panels	Manufacturer Qualifications: Minimum [5] [] years' experience in manufacture of composite stone
C. 1. 2.	Fabricator and Installer Qualifications:  Minimum [3] [] years' experience in work of this Section.  Approved by composite stone wall panel manufacturer.
D. of the Work	Mockup: [One full size panel.] [[] full size panels.] Approved mockup [may] [may not] remain as part
1.4	SYSTEM DESCRIPTION
3.	Design Requirements:  Live and dead loads in accordance with Building Code.  Minimum wind pressures in accordance with [ASCE 7,] [Building Code,] [,] with maximum effection of [L/240] [L/360] [], tested in accordance with ASTM E1592].  Movement caused by an ambient temperature range of [120] [] degrees F and a surface erange of [160] [] degrees F.  System design to be performed by qualified professional engineer licensed in State of [].
1.5	WARRANTY

Manufacturer's 20 year warranty against structural failure of composite stone wall panels.

A.

## PART 2 **PRODUCTS** 2.1 **MANUFACTURERS** Α. Contract Documents are based on Steni by Omnis Panels, LLC., www.omnisusa.com. Substitutions: [Refer to Division 01.] [Not permitted.] B. 2.2 **MATERIALS** Composite Stone Wall Panels: A. 1. Source: Steni Vision. Description: Fiberglass-reinforced composite stone sheets with electron beam-cured acrylic coating 2. on exterior face. 3. Panel thickness: Nominally 1/4 inch. 4. Flexural strength: Minimum 30 N/sq mm, tested to CSTB Method. 5. Tensile strength: Minimum 13 N/sg mm, tested to ISO/R 527-66. 6. Thermal conductivity: 0.55 W/(M k), tested to SINTEF NBI. 7. Thermal expansion: 0.021 to 0.026 mm/(m k), tested to SINTEF NBI at minus 20 to plus 65 degrees C. Resistance to impact: 3.5 at 1 m, tested to NT Build 066. 8. Moisture absorption: Tested to ASTM D570, 1 m deep at 25 degrees C and 100 percent relative 9. humidity. After 24 hours: ca 0.5 percent. a. After 28 days: ca 2.0 percent. b. Design: [\_\_\_\_.] [To be selected from manufacturer's full pattern range.] 10. 11. Texture: [High gloss.] [Matte.] [Half matte.] B. Subframing: Aluminum, [mill finish with primer.] [Anodized.] [Painted.] [Powder coated.] \*\*\*\* OR \*\*\*\* C. Subframing: Steel, [galvanized with primer.] [Painted.] [Powder coated.] \*\*\*\* OR \*\*\*\* D. Subframing: Wood, [primed.] [covered in EPDM foil tape.]

- 2.3 ACCESSORIES
- A. Structural Silicone Setting System:
- Structural silicone: SikaTack Panel 50 System by Sika Corporation.
- 2. Cellular foam adhesive tape: Type and size recommended by composite stone panel manufacturer.
- 3. Adhesion promoter: Type recommended by composite stone panel manufacturer.
- 4. Setting blocks: Silicone, 80 to 90 Shore A durometer, size recommended by composite stone panel manufacturer.
- 2.4 FABRICATION
- A. Fabricate panels in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Shop fabricate panels to greatest extent possible.
- C. Pre-drill fastener holes.
- D. Prepare special shapes and cutouts.

E. Miter edges where indicated.

F. Prefabricate outside corners.

PART 3 **EXECUTION** 

3.1 INSTALLATION

A. Install composite stone wall panels in accordance with manufacturer's instructions and approved Shop Drawings.

**END OF SECTION**