SECTION 07 42 43.04 - COMPOSITE STONE WALL PANELS - FACE ATTACHED

PART 1	GENERAL
1.1	ADMINISTRATIVE REQUIREMENTS
A. 1. related trad	Pre-Installation Conference: Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder] installer, and es.
2.	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. assembly.	Regulatory Requirements: Fire propagation characteristics: Panels tested and approved for use in NFPA 285 rated wall
2.	Flame spread rating: Class A, tested to ASTM E84.
B. wall panels	Manufacturer Qualifications: Minimum [20] [] 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

A. Manufacturer's 60 year warranty against structural failure of composite stone wall panels. PART 2 **PRODUCTS** 2.1 **MANUFACTURERS** Contract Documents are based on Steni by Omnis Panels, LLC, www.omnisusa.com. Α. B. Substitutions: [Refer to Division 01.] [Not permitted.] 2.2 MATERIALS Composite Stone Wall Panels: A. 1. Source: Steni Color. 2. Description: Fiberglass-reinforced composite stone sheets with electron beam-cured acrylic coating 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 15 N/sq mm, tested to ISO/R 527-66. Thermal conductivity: 0.55 W/(M k), tested to SINTEF NBI. 6. Thermal expansion: 0.021 to 0.026 mm/(m k), tested to SINTEF NBI at minus 20 to plus 65 degrees 7. C. 8. Hard/soft body impact: Category 1, tested to EAD 090062. Surface hardness: Ball impression 250 N, permanent impression, 0.14 mm, tested to NT Build 059. 9. Moisture absorption: Tested to ASTM D570. 1 m deep at 25 degrees C and 100 percent relative 10. humidity. a. After 24 hours: ca 0.5 percent. b. After 28 days: ca 2.0 percent. Color: [_____] [To be selected from manufacturer's full color range.] 11. 12. 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. Fasteners: Stainless steel, type and size recommended by composite stone wall 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.

Prepare special shapes and cutouts.

Miter edges where indicated.

D.

E.

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