

StonePly™

ACM

Aluminum Composite Backed Stone Panels.

SECTION 07420 - NATURAL STONE REINFORCED PANELS (EXTERIOR)

SECTION 09452 - NATURAL STONE REINFORCED PANELS (INTERIOR)

This section is based on the products of
StonePly

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Greenville, TX 75404

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www.stoneply.com

Verify lead times on custom items.

PART 1: GENERAL

1.1 SECTION INCLUDES

**** NOTE TO SPECIFIER **** If necessary, make a brief list of the items required.

- A. STONEPLY ALUMINUM COMPOSITE BACKED PANELS

1.2 WORK INCLUDED:

- A. Furnish all materials, labor, tools, equipment, engineering, and services to install composite stone panels of natural stone bonded to aluminum composite backing with high strength epoxy.
- B. Furnish and install supplementary framework, anchors and accessories as shown in drawings for a complete and secure installation.

1.3 RELATED WORK SPECIFIED ELSEWHERE:

- A. Dimensional Stone: Section 04400
- B. Cold Formed Metal Framing: Section 05400
- C. Rough Carpentry: Section 06100 Supplementary supports for large items.
- D. Insulation and Firesafing: Section 07200
- E. Joint Sealants: Section 07920
- F. Gypsum Sheathing: Section 09250

1.4 SUBMITTALS

- A. Product Data: Submit product specifications and manufacturer's installation instructions.
- B. Shop Drawings: Submit shop drawings for Architect's review and approval prior to fabrication, including pertinent details for installation, showing joint locations, layout plan, alignments, sizes, attachments, supports, accessories, corner details and adaptation of system to specific project.
- C. Engineering Calculations: Submit engineering calculations to the Architect, stamped and certified by a Registered Professional Engineer attesting adequacy of system to meet required loads.
- D. Samples: Submit a minimum of one 6" x 6" sample for each type of stone required.

- E. Test Data: Submit a summary of testing conducted verifying panel performance characteristics.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: The stone panel manufacturer shall have at minimum a 3 year demonstrated capability to produce panels of the quality and scope required.
- B. Installer Qualifications: Regularly engaged and experienced in the installation of composite natural stone veneer composite.

1.6 WARRANTY

- A. The stone panel manufacturer shall supply a 5 year limited warranty for the panels covering defects in stone panel lamination.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Transport, lift, and handle units with care, avoiding excessive stress and preventing damage; use appropriate equipment.
- B. Store products in manufacturer's unopened packaging until ready for installation, in a clean dry area protected from weather, moisture and damage; store units upright and not stacked unless permitted by manufacturer.

PART 2: PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Stoneply Co., 4400 Oneal, Greenville, TX 75404 Tel: (903) 454-0904. Fax: (903)454-3642. Email: sales@stoneply.com. www.Stoneply.com.
- B. Substitutions: Not permitted.

2.2 MATERIALS

- A. The stone shall match the sample
 - 1. Stone Finish shall be: (select one) [polished] [honed] [flamed or custom] [to match the approved sample].
- B. All reinforced stone panels shall have the following properties.
 - 1. Facing: 1/4" thickness
 - 2. Reinforcing: 1/4" aluminum composite bonded with high strength epoxy.
 - 3. Average Weight: 3.3 lbs per sq. ft. (16 kg per sq. m.)
 - 4. Dimensional Tolerance: Plus or minus 1/8" (3.2mm) in all directions. Plus or minus 1/8" (3.2mm) diagonally.

2.3 PERFORMANCE REQUIREMENTS

- A. The stone panels performance shall meet or exceed the following properties.
- B. Weather Resistance: No significant loss in bond strength after 200 hours accelerated weathering conducted in accordance with ASTM G 23.
- C. Flame Spread ASTM E-84: Maximum smoke development: 15. Maximum fuel contribution: 20

D. Toxicity of smoke: Smoke is primarily water vapor. No more toxic than Douglas Fir wood.

2.4 ACCESSORIES

- A. Adhesive shall be per manufacturers recommendations. All fastening shall be concealed. All panel mounting details shall be as approved by StonePly Co. Engineering Department prior to installation.
- B. Joint sealants (as specified in Section 07920) shall be pre tested for compatibility with the natural stone panel facing selected.

PART 3 - EXECUTION

3.1 WORKMANSHIP

- A. Installation shall be by experienced manufacturer trained installers.

3.2 PREPARATION

- A. Before starting installation, ensure that concrete or stud wall assembly is plumb and dimensions are per the Shop Drawings and Layout Drawings, and installed per relevant codes and regulations.

3.3 INSTALLATION

- A. Install in accordance with applicable code and manufacturer's recommendations, plumb and true to line; shim where necessary.
- B. All panels shall be installed in proper alignment in accordance with the approved Shop Drawings.

3.4 CLEANING

- A. Clean all dirt, marks and sealant from stone panels using methods appropriate for the type of stone and per manufacturer's recommendations.
- B. Touch-up chipped and scratched surfaces per manufacturer's guidelines as approved by the Architect.

END OF SECTION