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3-PART SPECIFICATION

SECTION 04 70 00
Manufactured Masonry

General Notes to Specifier.

This guide specification has been prepared by Creative Mines, in printed and electronic form, as an aid to design professionals in preparing written construction documents for manufactured masonry veneer.

Edit master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences within brackets [_____] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary and descriptive type specifications; edit to avoid conflicting requirements.

This guide specification is written around the Construction Specifications Institute (CSI), Section Format standards and therefore may be used with most master specification systems. For specification assistance on specific product applications, please contact our offices or our local product representatives.

Notes to the specifier are contained in highlighted boxes and should be deleted from final copy.

Creative Mines reserves the right to modify this guide specifications at any time. Updates to this guide specification will be posted to the manufacturer's website and/or in printed matter as they occur. Creative Mines makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

Specification begins on the following page.

SECTION 04 70 00
MANUFACTURED MASONRY

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Manufactured masonry veneer.
 2. Board Form and Rectangle veneer
 3. Manufactured trim.
 4. Application materials.

1.02 REFERENCES

- A. American National Standards Institute (ANSI A118.4) Prepackaged Latex Portland Cement Mortar.
- B. ASTM International (ASTM):
1. ASTM C39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.
 2. ASTM C67 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile.
 3. ASTM C192 Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory.
 4. ASTM E119 Standard Test Methods for Fire Tests of Building Construction and Materials.
 5. ASTM C207 Standard Specification for Hydrated Lime for Masonry Purposes.
 6. ASTM C270 Standard Specification for Mortar for Unit Masonry.
 7. ASTM C482 Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement.
 8. ASTM C567 Standard Test Method for Determining Density of Structural Lightweight Concrete.
 9. ASTM C847 Standard Specification for Metal Lath.
 10. ASTM C932 Standard Specification for Surface-Applied Bonding Compounds for Exterior Plastering.
 11. ASTM C979 Standard Specification for Pigments for Integrally Colored Concrete.
 12. ASTM C1032 Standard Specification for Woven Wire Plaster Base.
 13. ASTM C1059 Standard Specification for Latex Agents for Bonding Fresh To Hardened Concrete.
 14. ASTM D226 Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
- C. Building Materials Evaluation Commission.
- D. International Code Council (ICC):
1. ICC ES AC 51 Acceptance Criteria for Precast Stone Veneer.
 2. ICC ESR-3685
 3. UBC Standard No. 14-1, Kraft Waterproof Building Paper.
- E. [LEED: US Green Building Council's Leadership in Energy and Environmental Design Green Building Rating System.]

1.03 SUBMITTALS

- A. Refer to Section 01 33 00 - Submittal Procedures;
 - 1. Product Data: Manufactured masonry and application materials including weather resistive barriers.
 - 2. Samples: Panel containing full-size samples of specified manufactured masonry showing full range of colors and textures complete with specified mortar. Size of masonry sample is approx. 16 by 24 inches (400 by 600 mm).
 - 3. Quality Assurance Submittals:
 - a. Installer Qualifications: Proof of installer qualifications 5 years minimum.
 - b. Installation Instructions: Manufacturer's instructions for veneer and other materials.
 - 4. [LEED Submittals:
 - a. Credit MR 5.1 Local/Regional Materials: Indicate location of manufacturer of manufactured masonry, and distance from manufacturer to project site.]
- B. Closeout Submittals - Submit the following items:
 - 1. Maintenance Instructions.
 - 2. Special Warranties.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: Mason with 5 years of experience installing manufactured stone veneer.

Edit following listings based on project and local requirements. Delete "building materials evaluation commission" except for Canadian projects.

- B. Certifications:
 - 1. ICC ESR-3685 in accordance with AC51.
 - 2. Building Materials Evaluation Commission.
 - 3. CE Declaration of Conformity
 - 4. [____]

If following paragraph is retained, insert special conditions desired to be reviewed in the blank space.

- C. Field Samples: Prepare sample at location selected by Architect showing representative sample of installed product including penetration and termination details, corner detail, _____, and mortar color and tooling.
 - 1. Reference Section 01 45 00 - Quality Control.
 - 2. Minimum size: [4 by 4 feet (1200 by 1200 mm)] [__ by __ feet (____ by ____ mm)] .
 - 3. Approved field samples may remain as part of completed Work.
 - 4. Obtain Architect's approval.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Reference Section 01 66 00—Product Storage and Handling Requirements.
- B. Follow manufacturer's instructions.

1.06 PROJECT/SITE CONDITIONS

- A. Cold weather installations: Maintain materials and ambient temperature at minimum 40 degrees F (4 degrees C) prior to, during, and for 48 hours following installation.



- B. Hot weather installations: Mist water on the scratch coated surface and the backs of the masonry veneer for installations that exceed 90 degrees (32 degrees C).

1.07 WARRANTY

- A. Special Warranty: Manufacturer’s standard 50-year warranty coverage against defects in materials when installed in accordance with manufacturer’s installation instructions.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. **Creative Mines, LLC**
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Carlsbad, CA 92011
Tel: 800.453.7040
E-Mail: create@creativemines.us
Website: www.creativemines.us

Insert name, address and contact information of local distributor below.

- 1. Manufacturer’s Distributor:

- B. Substitutions: None Permitted

2.02 MANUFACTURED MASONRY VENEER UNITS

- A. Craft Stone Veneer:

Select desired profile from the Creative Mines website products.

- 1. Product: _____ veneer.
- 2. Profile: _____. Include matching corner pieces.
- 3. Stone Accessories: _____.
 - a. Color: _____.
 - b. Texture: _____.

- B. Craft Board Form and Rectangle Veneer:

Select desired profile from the Creative Mines website products.

- 1. Product: _____ veneer.
- 2. Profile: _____. Include matching corner pieces if available.
- 3. Stone Accessories: _____.
 - a. Color: _____.
 - b. Texture: _____.

- C. Brick Veneer:

Select desired profile and color from the Creative Mines website.

1. Profile: _____ . Include matching corner pieces.
 - a. Color: _____ .

Select desired brick accessories from the Creative Mines website.

2. Brick Accessories: _____ .
 - a. Color: [Match brick] [] [_____] [As shown on Drawings] .

D. Veneer Unit Properties;

1. Compressive Strength: ASTM C 192 and ASTM C 39, Greater than 1,800 psi (12.4 MPa).
2. Shear Bond strength to Mortar: ASTM C 482, 50 psi (345 kPa).
3. Water Absorption: UBC Standard 15-5, Less than 22 percent.
4. Freeze-Thaw Test: ASTM C 67, 50 Cycles, no disintegration and less than 3 percent weight loss.
5. Fire Resistance: ASTM E119 or UL 263.
6. Maximum Veneer Unit Weight: 15 lbs/sf (73 kg/gm²)

Edit materials per building code requirements. Delete from this section if specified in other sections.

2.03 ACCESSORY MATERIALS

- A. Weather Resistive Barrier: Kraft waterproof building paper, UBC Standard No. 14.1, No.15 Type I, asphalt saturated felt, ASTM D226.
- B. Metal Lath: ASTM C847; 18 gauge woven wire or self-furring, galvanized, 2.5 lb/sy or 3.4 lb/sy metal lath.
- C. Fasteners:
 1. Wood Studs: Minimum 3/4" (19 mm) crown galvanized staples or minimum 1/8" (3.1 mm) shank diameter galvanized nails that penetrate the stud minimum 3/4" (19 mm).
 2. Metal Studs: Minimum 7/16" (11.1 mm) head diameter, corrosion resistant, self-drilling self-tapping, pancake head screws of sufficient length to penetrate 3/8" (9.5 mm) minimum by threads into stud.
- D. Mortar and Grout: Standard Type S or Type N Mortar is suitable for grouted veneer. For tight fit, drystack applications use a Polymer Modified Mortar.
 1. Comply with ASTM C 270 for Type S or Type N Mortars.
 2. Mortar Color: ASTM C 979 mineral oxide pigments.
 3. Water: Potable
 4. Prepackaged Polymer Modified Mortars: ANSI A118.4 or ANSI A118.15 or equivalent.
 5. Color: _____ .

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrate.
- B. Coordinate corrective actions of unsatisfactory substrates.

- C. Commencement of work is acceptance of condition of substrate.

3.02 PREPARATIONS

- A. Protection: Protect surrounding work from damage by work in this area.
- B. Surface Preparation: Installations directly over masonry/concrete substrates ensure they do not have residual coatings present which may affect bonding of mortar to the substrate and correct problem according to manufacturer.

3.03 INSTALLATION

- A. Weather Resistive Barrier: Install in accordance with manufacturer's installation instructions.
- B. Control Joints: Size in accordance with Section 07 92 00 – Joint Sealant for sealant performance, but in no case larger than adjacent mortar joints in exposed stone units.
- C. Expansion Joints: Provide where indicated on Drawings or as recommended by manufacturer.
- D. Manufactured Masonry Veneer: Install veneer in accordance with manufacturer's installation instructions.
- E. Board Form and Rectangle Veneer: Install Board Form and Rectangle veneer in accordance with manufacturer's installation instructions.

3.04 FIELD QUALITY CONTROL

- A. Manufacturer's Field Representatives: Provide [____] periodic site visits as requested by Architect.

3.05 CLEANING & SEALING

- A. Cleaning: Reference Section 01 74 00 - Cleaning and Waste Management.
- B. Remove excess mortar and smears using a soft bristle brush within 1 to 2 hours of installation.
- C. Clean the masonry veneer in accordance with manufacturer's installation instructions. Do not use acid cleaners.
- D. For high freeze-thaw regions, use a silane or siloxane based breathable masonry sealer.

END OF SECTION

This specification was prepared specifically for Creative Mines, LLC. Comments or Suggestions for improvement should be addressed to: Creative Mines, LLC, 6102 Avenida Encinas, Suite M, Carlsbad, CA 92011