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PROVIA MANUFACTURED STONE

CSI Sections:
04 71 00 Manufactured Brick Masonry
04 73 00 Manufactured Stone Masonry

1.0 RECOGNITION

ProVia Manufactured Stone has been evaluated for use as a wall covering over exterior walls of wood studs, cold-formed steel framing, or concrete masonry. The composition, strength, durability, and thermal resistance of the ProVia Manufactured Stone was evaluated for compliance with the following codes:

- 2024, 2021, 2018, and 2015 International Building Code® (IBC)
- 2024, 2021, 2018, and 2015, International Residential Code® (IRC)
- 2026 and 2023 Florida Building Code, Building (FBC) - attached Supplement
- 2026 and 2023 Florida Building Code, Residential (FRC) - attached Supplement

2.0 LIMITATIONS

Use of ProVia Manufactured Stone as recognized in this report is subject to the following limitations:

2.1 The design of the adhered manufactured stone masonry veneer (AMSMV) as it relates to the installation shall consider movement caused by temperature changes, shrinkage, creep and deflection as required by the general design requirements of TMS 402. An approved source may detail how to utilize expansion or control joints to limit movement to control the movement of AMSMV

2.2 Wall structural components which are designed in accordance with the IBC, including lintels and headers, shall consider the weight of the veneer system. The deflection caused by carrying dead load shall be limited to a deflection of l/600 as required by the design of the beam requirements of TMS 402.

2.3 The average weight of the wall, including the installation of the AMSMV, shall be determined when the seismic provisions of Section R301.2.2 of the IRC are applicable. Average weights of the walls that exceed the limits of IRC Section R301.2.2.2 shall require engineer design as defined by Section R301.1.3 of the IRC.

2.4 AMSMV units which are installed as an exterior covering on wood stud walls, shall have clearances above the earth, paved areas, or exterior walking surfaces which are supported by the same foundation that supports the exterior wall shall meet the requirements of the 2024 IBC Section 1404.11.1.3, 2021 and 2018 IBC Section 1404.10.1.3,2015 IBC Section 1405.10.1.3 or IRC Section R703.12.1, as applicable.

2.5 When installed in accordance with the 2024 IBC, the special inspection requirements are as referenced in Table 4 of TMS 602 as required in Section 1705.4.

2.6 When installed in accordance with the 2024 IBC, differential movement shall be addressed in accordance with Section 13.1 of TMS 402-22. Deflection of members supporting the AMSMV shall meet the requirements of Section 13.1.2.3 of TSM 402-22. Walls covered in AMSMV, shall comply with the out-of-plane deflection criteria as defined in Section 13.3.1.2 of TMS 402-22**.**

2.7 ProVia Manufactured Stone recognized in this report is produced by ProVia LLC, in Sugarcreek, Ohio.

3.0 PRODUCT USE

3.1 ProVia Manufactured Stone complies with Section 1404.11 of the 2024 IBC, Section 1404.10 of the 2021 and 2018 IBC, and Section 1405.10 of the 2015 IBC and Section R703.7 of the IRC as an exterior wall covering.

The backing for ProVia Manufactured Stone shall be of concrete, masonry, steel framing, or wood framing per Section 1403.4 of the IBC, or Section 1404 of the 2015 IBC. The veneer units shall be adhered to cement plaster, concrete, or concrete masonry backings when installed in accordance with the manufacturer's specified installation instructions, ASTM C1780, this report, and the applicable code. Lath, lath accessories, and fasteners shall be corrosion-resistant.

3.2 ProVia Manufactured Stone shall be installed in accordance with Section 1404.11.1 of the 2024 IBC, Section 1404.10.1 of the 2021 and 2018 IBC, and Section 1405.10.1 of the 2015 IBC or Section R703.12 of the IRC, as applicable, ASTM C1780, and the installation instructions. In the event of a conflict, the more restrictive requirement governs.

3.3 ProVia Manufactured Stone units may be applied over the assemblies described in Table 1 of this report when installed in accordance with the referenced code sections and this report.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, in accordance with Section 104.2.3 of the 2024 IBC and Section 104.11 of previous editions. This document shall only be reproduced in its entirety.

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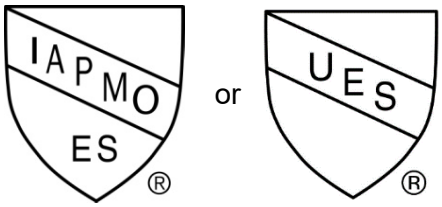
4.0 PRODUCT DESCRIPTION

4.1 ProVia Manufactured Stone is manufactured concrete products formed to resemble natural stone in both texture and color. The individual masonry veneer units shall be a minimum of ¾-inch (19 mm) thick and a maximum of 2½-inches (63.5 mm) thick with a minimum compressive strength of 1,800 psi (12.4 MPa). The product's average saturated weight does not exceed 15 pounds per square foot (73 kg/m^2) as required by ASTM C1670. The recognized veneer styles are shown in Table 2 of this report.

4.2 The veneer, at thickness of 1 inch (25.4 mm), has an average thermal resistance (R-value) of 0.58 h. ft^2 °F/Btu (0.0329 K·m^2/W) when tested in accordance with ASTM C518.

5.0 IDENTIFICATION

Boxes of ProVia Manufactured Stone are identified with the manufacturer's name, the pattern/style name, manufacturing date, manufacturing location, and evaluation report number (ER-462). Either IAPMO UES Mark of Conformity may also be used as shown below:



IAPMO UES ER-462

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with ASTM C1670, and the Acceptance Criteria for Precast Stone Veneer (ICC-ES AC51), approved June 2018, editorially revised February 2024.

6.2 Reports of Thermal Transmission Properties testing in accordance with ASTM C518.

6.3 Test reports are from laboratories in compliance with ISO/IEC 17025.

6.4 Manufacturer's descriptive literature and installation instructions.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on ProVia Manufactured Stone to assess its conformance to the codes and standards shown in Section 1.0 of this report and documents the product's certification. Products are manufactured at locations noted in Section 2.7 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

TABLE 1 – Application of Masonry Veneer Units		
Item	**Code Section**	**Notes**
1. Mortar Scratch Coat	2024 IBC Section 1404.11.1.4.2, 2021 and 2018 IBC Section 1404.10, 2015 IBC Section 1405.10.1	Nominally ½-inch, thick scratch coat of Type S mortar complying with ASTM C270, scored horizontally in accordance with IBC Section 2512.6.
2. Water Resistive Barrier	2024 IBC Section 1404.11.1.1, 2021 and 2018 IBC Section 1404.10.1.1, 2015 IBC Section 1405.10.1.1 IRC Section R703.7.3	
3. Flashing	2024, 2021, and 2018 IBC Section 1404.4, 2015 IBC Section 1405.4 and Section 1405.10.1.2 IRC Section R703.4 and IRC Section R703.12.2	
4. Weep Screed	2024 IBC Section 1404.11.1.2, 2021 and 2018 IBC Section 1404.10.1.2, 2015 IBC Section 1405.10.1.2 IRC Section R703.12.1 TMS 402-22 Section 13.3 TMS 402-16 and TMS 402-13 Section 12.1.6.2	
5. Lath and Fasteners	IBC Section 2510.3 (ASTM C926 and ASTM C1063) IRC Section R703.6.1	For proprietary fasteners, shear and pull out capacities shall be justified to the satisfaction of the authority having jurisdiction (AHJ).
6. Over Wood Based or Gypsum Sheathing Supported by Steel or Wood Framing	As given in **Items 1, 2, 3, 4,** and **5** and **Notes**	**Items 1, 2, 3, 4,** and **5** with framing spaced at 16 inches on-center maximum, lath shall be 2.5 lb/yd^2 self-furring diamond metal lath complying with ASTM C847 fastened in accordance with the requirements of ASTM C1063 Section 7.10.2, and Section R703.6.1 of the IRC with fasteners spaced a maximum of 6 inches on-center.
7. Over Open Studs	As given in **Items 1, 2, 3, 4, 5,** and **6** and **Notes**	**Items 1, 2, 3, 4, 5,** and **6** except with 2.5 lb/yd^2 galvanized expanded diamond mesh metal lath complying with ASTM C847.
8. Over Concrete or Concrete Masonry	Prepare surfaces in accordance with IBC Section 2510.7 and Section 5.2 of ASTM C926.	The veneer may be adhered to backings of clean concrete masonry without lath, in accordance with Section 2510.7 of the IBC and Section 5.2 of the ASTM C926. Or **Items 1, 3, 4,** and **5** except with metal lath complying with ASTM C847; or 1.4 lb/yd^2 woven wire plaster base complying with ASTM C1032.
9. Application of Veneer Units	2024, 2021, and 2018 IBC Section 2103.2.4, 2015 IBC Section 2103.9 TMS 402-22 - Section 13.3	Nominal ½-inch thick setting bed of Type S mortar applied to the back of the veneer units in accordance with instructions as noted in Section 3.2 of this report.

SI conversions: 1 inch = 25.4 mm, 1 lb/yd^2 = 0.54 kg/m^2

TABLE 2 – Recognized Veneer Style Names
Dry Stack, Fieldstone, Ledgestone, Limestone, Natural Cut™, PrecisionFit™, River Rock, Terra Cut™, Chisel Cut™, Ridge Cut™, Edge Cut™

FLORIDA SUPPLEMENT

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1.0 RECOGNITION

ProVia Manufactured Stone evaluated in IAPMO UES Evaluation Report ER-462 is a satisfactory alternative exterior wall covering in accordance with the following codes and regulations:

- 2026 and 2023 Florida Building Code, Building (FBC, Building)
- 2026 and 2023 Florida Building Code, Residential (FBC, Residential)

2.0 LIMITATIONS

The ProVia Manufactured Stone described in IAPMO UES ER-462 complies with or are suitable alternatives to what is specified in the codes listed in Section 1.0 of this supplement, subject to the following limitations:

2.1 All provisions of IAPMO UES ER-462 referencing the 2024 IBC or IRC shall apply for use under the 2026 FBC, Building or 2026 FBC, Residential, as applicable. All provisions of IAPMO UES ER-462 referencing the 2021 IBC or IRC shall apply for use under the 2023 FBC, Building or FBC, Residential, as applicable.

2.2 Installation of ProVia Manufactured Stone shall provide for a clear inspection space in accordance with 2026 FBC, Building Sections 1403.9 (2023 FBC, Building Section 1403.8) and 2114.2 or FBC, Residential Section R318.5, as applicable; except, where the masonry veneer extends below grade, a termite protective treatment shall be applied in accordance with FBC, Building Section 2114.2.

2.3 Use of ProVia Manufactured Stone in Florida High-Velocity Hurricane Zones (HVHZ) is beyond the scope of this report.

2.4 Verification that the report holder's quality assurance program is audited by a quality assurance entity, approved by the Florida Building Commission (or the building official when the report holder does not possess an approval by the Commission), to provide oversight and determine that the products are being manufactured as described in this evaluation report to establish continual product performance shall be provided for products falling under Section (5)(d) of Florida Rule 61G20-3.008.

2.5 Wall structural components which are designed in accordance with the FBC, Building, including lintels and headers, shall consider the weight of the veneer system. The deflection caused by carrying dead load shall be limited to a deflection of l/600 as required by the design of the beam requirements of TMS 402.

2.6 AMSMV units which are installed as an exterior covering on wood stud walls, shall have clearances above the earth, paved areas, or exterior walking surfaces which are supported by the same foundation that supports the exterior wall shall meet the requirements of the FBC, Building Section 1405.10.1.3, or FBC, Residential Section R703.12.1, as applicable.

2.7 ProVia manufactured stone veneer units may be applied over the assemblies described in Table F1 of this supplement when installed in accordance with the referenced code sections and this report.

2.8 Fasteners in areas within 3,000 feet (914 m) of a saltwater coastline shall be corrosion resistant by composition (stainless steel or nonferrous metal) or by coating or galvanization in accordance with Section 1711.1 and Table 1711.1 and Sections 2204.3, 2206.4, and 2222.6.3 of the Florida Building Code®, Building.

2.9 This supplement expires concurrently with IAPMO UES ER-462.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

TABLE F1 – Application of Masonry Veneer Units in FL

Item	FBC, Building and FBC, Residential Code Sections	Notes
1. Cement Plaster	FBC, Building Section 1405.10 FBC, Residential Section R703.7.2	Nominally ½-inch scratch coat of Type S mortar complying with ASTM C270, scored horizontally in accordance with FBC, Building Section 2512.6.
2. Water Resistive Barrier	FBC, Building Section 1405.10.1.1 FBC, Residential Section R703.7.3	
3. Flashing	FBC, Building Section 1405.4 FBC, Residential Section R703.4	
4. Weep Screed	FBC, Building Section 1405.10.1.2 FBC, Residential Section R703.12.2 TMS 402-22 Section 13.3 TMS 402-16 Section 12.1.6.2	
5. Lath and Fasteners	FBC, Building Section 2510.3 (ASTM C926 and ASTM C1063) FBC, Residential Section R703.7.1	For proprietary fasteners, shear and pull-out capacities shall be justified to the satisfaction of the authority having jurisdiction (AHJ).
6. Over Wood Based or Gypsum Sheathing Supported by Steel or Wood Framing	See **Items 1, 2, 3, 4** and **5** and **Notes**	**Items 1, 2, 3, 4,** and **5** with framing spaced at 16 inches on-center maximum, lath shall be 2.5 lb/yd^2 self-furring diamond metal lath complying with ASTM C847 and fastened in accordance with the requirements of ASTM C1063, Section 7.10.2, and Section R703.6.1 of the FBC, Residential with fasteners spaced a maximum of 6 inches on-center.
7. Over Concrete or Concrete Masonry	Prepare surfaces in accordance with FBC, Building Section 2510.7 and Section 5.2 of ASTM C926.	**Items 1, 3, 4, 5,** and **6** except with metal lath complying with ASTM C847. The veneer may also be adhered to backings of clean concrete masonry without lath, in accordance with Section 2510.7 of the FBC, Building and Section 5.2 of the ASTM C926.
8. Mortar Application of Veneer Units	FBC, Building Section 2103.2.4 TMS 402-22 Section 13.3	Nominal ½-inch thick setting bed of Type S mortar applied to the back of the veneer units in accordance with ProVia installation instructions.

SI conversions: 1 inch = 25.4 mm, 1 lb/yd^2 = 0.54 kg/m^2