



SECTION 04400

STONE

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Travertine fabrications and installation.
- B. Marble fabrications and installation.
- C. Limestone fabrications and installation.
- D. Tumbled stone fabrications and installation.
- E. Mesh mounted mosaics fabrications and installation.
- F. Terrazzo tiles fabrications and installation.
- G. Stone borders and molding fabrications and installation.
- H. Stone sinks fabrications and installation.
- I. Stone bath tubs and shower trays fabrications and installation.

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete: floor and wall substrate.

1.3 REFERENCES

- A. ASTM C503 - Standard Specification for Marble Dimension Stone (Exterior).
- B. ASTM C568 - Standard Specification for Limestone Dimension Stone.
- C. ASTM C1527 - Standard Specification for Travertine Dimension Stone.
- D. ASTM C97 - Standard Test Method for Absorption and Bulk Specific Gravity of Dimension Stone.
- E. ASTM C99 - Standard Test Method for Modulus of Rupture of Dimension Stone.
- F. ASTM C120 - Standard Test Method of Flexure Testing of Slate (Modulus of Rupture, Modulus of Elasticity).

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- G. ASTM C121 - Standard Test Method for Water Absorption of Slate.
- H. ASTM C170 - Standard Test Method for Compressive Strength of Dimension Stone.
- I. ASTM C199 - Standard Test Method for Pier Test for Refractory Mortars.
- J. ASTM C217 - Standard Test Method for Weather Resistance of Slate.
- K. ASTM C241 - Standard Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic.
- L. ASTM C880 - Standard Test Method for Flexural Strength of Dimension Stone.
- M. ASTM C1028 - Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
- N. ASTM C1201 - Standard Test Method for Structural Performance of Exterior Dimension Stone Cladding Systems by Uniform Static Air Pressure Difference.
- O. ASTM C1352 - Standard Test Method for Flexural Modulus of Elasticity of Dimension Stone.
- P. ASTM C1353 - Standard Test Method Using the Taber Abraser for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic.
- Q. ASTM C1354 - Standard Test Method for Strength of Individual Stone Anchorages in Dimension Stone.
- R. ASTM Manual Series: MNL 21 - Modern Stone Cladding: Design and Installation of Exterior Dimension Stone Systems. 1995.
- S. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- T. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- U. ASTM C36/C36M - Standard Specification for Gypsum Wallboard.
- V. ASTM C59/C59M - Standard Specification Gypsum Casting Plaster and Gypsum Molding Plaster.
- W. ASTM C91 - Standard Specification for Masonry Cement.
- X. ASTM C119 - Standard Terminology Relating to Dimension Stone.
- Y. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar.
- Z. ASTM C150 - Standard Specification for Portland Cement.
- AA. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes.
- BB. ASTM C270 - Standard Specification for Mortar for Unit Masonry.
- CC. ASTM C295 - Standard Guide for Petrographic Examination of Aggregates for Concrete.

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- DD. ASTM C630/C630M - Standard Specification for Water-Resistant Gypsum Backer Board.
- EE. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.
- FF. ASTM C1242 - Standard Guide for Selection, Design, and Installation of Exterior Dimension Stone Anchors and Anchoring Systems.
- GG. ASTM C1515 - Standard Guide for Cleaning of Exterior Dimension Stone, Vertical and Horizontal Surfaces, New or Existing.
- HH. ASTM C1528 - Standard Guide for Selection of Dimension Stone for Exterior Use.
- II. ASTM E72 - Standard Test Methods of Conducting Strength Test of Panels for Building Construction.
- JJ. ASTM E119 - Standard Test Methods for Fire Test for Building Construction.
- KK. ASTM E575 - Standard Practice for Reporting Data from Structural Tests of Building Constructions, Elements, Connections, and Assemblies.
- LL. ASTM E632 - Standard Practice for Developing Accelerated Tests to Air Prediction of the Service Life of Building Components and Materials.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Typical pattern showing repeating dimensions, accessory pieces and attachment mortars, anchors and reinforcing.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

- A. Design and Engineering: Design, engineering and fabrication services supplied by the Contractor shall adhere to the Dimension Stone Design Manual, VII written by the Marble Institute of America.
- B. Installer Qualifications: Minimum 2 years experience installing stonework similar to that required for this Project.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

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1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: CODE Impex Marble & Travertine Group , which is located at: 71 Barbara St. ; Bloomfield, NJ 07003; Toll Free Tel: 888-CODE-044; Fax: 973-338-0131; Email: info@codeimpex.com ; Web: www.codeimpex.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 TRAVERTINE

- A. Travertine: Comply with ASTM C 1527, Classification I Exterior and II Interior as scheduled or required.
- B. Primary Name: Philly Silver.
 - 1. Recommended Usage: Vertical and Flooring.
 - 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 - 3. Absorption by weight, % / 0.7 / C97 / 0.10% / 2.5 %.
 - 4. Density, lbs/ ft / 156.07 / C97 / 140 / (no maximum requirement).
 - 5. Compressive strength, psi / 9245 / C170 / 5000 / 10500.
 - 6. Abrasion resistance, hardness / 21.8 / C1353 / 13 / 25.
 - 7. Flexural strength, psi / 2821 / C880 / 600 / 1500.
- C. Primary Name: Spill Cream.
 - 1. Recommended Usage: Vertical and Flooring.
 - 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 - 3. Absorption by weight, % / 1.05 / C97 / 0.6% / 2.5 %.
 - 4. Density, lbs/ ft / 168.56 / C97 / 140 / (no maximum requirement).
 - 5. Compressive strength, psi / 16654 / C170 / 5000 / 10500.
 - 6. Abrasion resistance, hardness / 21.5 / C1353 / 13 / 25.
 - 7. Flexural strength, psi / 1450 / C880 / 600 / 1500.
- D. Primary Name: Navona.
 - 1. Recommended Usage: Vertical and Flooring.
 - 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.

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3. Absorption by weight, % / 1.1 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft 169.8 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 8107 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.7 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1536 / C880 / 600 / 1500.
- E. Primary Name: Light Beige.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1.1 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft 169.8 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 8107 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.7 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1536 / C880 / 600 / 1500.
- F. Primary Name: Light Walnut.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft / 168.56 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 9245 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.5 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1408 / C880 / 600 / 1500.
- G. Primary Name: Classic Roman.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft 169.8 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 8107 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.9 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1536 / C880 / 600 / 1500.
- H. Primary Name: Yellow.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 2.02 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft / 152 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 8264 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.2 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1379 / C880 / 600 / 1500.
- I. Primary Name: Tuscan Red.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1.42 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft / 161.69 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 17523 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 20.6 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1450 / C880 / 600 / 1500.

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- J. Primary Name: Silver.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.4 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft / 164.81 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 6827 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.4 / C1353 / 13 / 25.
 7. Flexural strength, psi / 2147 / C880 / 600 / 1500.
 8. Silver cross cut.
 9. Silver vein cut.
- K. Primary Name: Ivory Classic.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1.1 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft / 169.8 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 8107 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.7 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1536 / C880 / 600 / 1500.
 8. Ivory cross cut.
 9. Ivory vein cut.
- L. Primary Name: Cloudy beige.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.4 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft / 151 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 8320 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.2 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1009 / C880 / 600 / 1500.
- M. Primary Name: Noce.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1.27 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft / 168.56 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 9245 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.5 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1408 / C880 / 600 / 1500.
- N. Primary Name: Crema Anatolia.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 2.18 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft / 169 / C97 / 140 / (no maximum requirement).
 5. Compressive strength, psi / 7282 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 21.0 / C1353 / 13 / 25.
 7. Flexural strength, psi / 1720 / C880 / 600 / 1500.
- O. Primary Name: Chocolate Dream.

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1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 1.49 / C97 / 0.10% / 2.5 %.
4. Density, lbs/ ft / 164.2 / C97 / 140 / (no maximum requirement).
5. Compressive strength, psi / 5165 / C170 / 5000 / 10500.
6. Abrasion resistance, hardness / 19.7 / C1353 / 13 / 25.
7. Flexural strength, psi / 1086 / C880 / 600 / 1500.

2.3 MARBLE

- A. Marble: Comply with ASTM C 503, Classification I Calcite and II Dolomite as scheduled.
- B. Primary Name: Crema Marfil Classic.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1 / C97 / 0.10% / 2.5 %.
 4. Density, lbs/ ft / 169 / C97 / 167 / (no maximum requirement).
 5. Compressive strength, psi / 23653 / C170 / 5000 / 10500.
 6. Abrasion resistance, hardness / 28.7 / C1353 / 13 / 25.
 7. Flexural strength, psi / 3250 / C880 / 600 / 1500.
- C. Primary Name: Botticino Fioritto.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.6 / C97 / 0.06% / 1 %.
 4. Density, lbs/ ft / 166.68 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 6855 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 26.2 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1564 / C880 / 600 / 4900.
- D. Primary Name: Imperial White.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.6 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171.05 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 14493 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 24.3 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2305 / C880 / 600 / 4900.
- E. Primary Name: Rosso Levante.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.7 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 169.18 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 14493 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 27.7 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1920 / C880 / 600 / 4900.
- F. Primary Name: Turkish Carrara.

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1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.4 / C97 / 0.06% / 1 %.
 4. Density, lbs/ ft / 171 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 14849 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 25.2 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2474 / C880 / 600 / 4900.
- G. Primary Name: Nouva Marfil.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.2 / C97 / 0.06% / 1 %.
 4. Density, lbs/ ft / 171 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 16143 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 25.2 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1860 / C880 / 600 / 4900.
- H. Primary Name: Spartan River.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1 %.
 4. Density, lbs/ ft / 169.05 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 28376 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 31.2 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2531 / C880 / 600 / 4900.
- I. Primary Name: Bianco Dolomiti.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 177 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 10000 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 22.6 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1400 / C880 / 600 / 4900.
- J. Primary Name: Aegean Brown Classic.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.67 / C97 / 0.06% / 1 %.
 4. Density, lbs/ ft / 169.18 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 8050 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 28.6 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1866 / C880 / 600 / 4900.
- K. Primary Name: Chinchilla.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171 / C97 / 142 / (no maximum requirement).

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5. Compressive strength, psi / 11264 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 17.9 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2262 / C880 / 600 / 4900.
- L. Primary Name: Scorrimento.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.07 / C97 / 0.06% / 1%
 4. Density, lbs/ ft / 171.05 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 11292 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 22.9 / C1353 / 5 / 50.
 7. Flexural strength, psi / 3884 / C880 / 600 / 4900.
- M. Primary Name: Phoenix Ash.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 167.93 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 10724 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 38.3 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1721 / C880 / 600 / 4900.
- N. Primary Name: Onyx.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.11 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 182.91 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 8534 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 18.5 / C1353 / 5 / 50.
 7. Flexural strength, psi / 768 / C880 / 600 / 4900.
- O. Primary Name: Smyrna Bordeaux.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.14 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 169 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 21093 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 26.7 / C1353 / 5 / 50.
 7. Flexural strength, psi / 3670 / C880 / 600 / 4900.
- P. Primary Name: Lilac New York.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171.05 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 14223 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 16.9 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2005 / C880 / 600 / 4900.
- Q. Primary Name: Rosalia Light.

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1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.18 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 167.31 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 17608 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 31.2 / C1353 / 5 / 50.
 7. Flexural strength, psi / 4807 / C880 / 600 / 4900.
- R. Primary Name: Salome.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171.05 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 9735 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 21.7 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2603 / C880 / 600 / 4900.
- S. Primary Name: Bordeaux Grigio.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171.05 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 9735 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 21.7 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2603 / C880 / 600 / 4900.
- T. Primary Name: Anatolia Beige.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.2 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 167.93 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 16214 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 23.8 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1735 / C880 / 600 / 4900.
- U. Primary Name: Emperador Light.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.3 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 169.80 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 14413 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 22.5 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1920 / C880 / 600 / 4900.
- V. Primary Name: Emperador Dark.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.31 / C97 / 0.06% / 1 %.
 4. Density, lbs/ ft / 164.19 / C97 / 142 / (no maximum requirement).

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5. Compressive strength, psi / 18817 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 24.6 / C1353 / 5 / 50.
 7. Flexural strength, psi / 952 / C880 / 600 / 4900.
- W. Primary Name: Rosa Tea.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.5 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 169.80 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 14493 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 28.2 / C1353 / 5 / 50.
 7. Flexural strength, psi / 3072 / C880 / 600 / 4900.
- X. Primary Name: Bellagio Cream.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 2.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 165.43 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 25317 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 28.7 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2617 / C880 / 600 / 4900.
- Y. Primary Name: Verde Laguna.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 170.43 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 9913 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 26.3 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2005 / C880 / 600 / 4900.
- Z. Primary Name: Afyon Sugar.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171.05 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 12680 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 22.8 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2147 / C880 / 600 / 4900.
- AA. Primary Name: Turkish Crema Marfil.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.2 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 167.93 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 15645 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 27.6 / C1353 / 5 / 50.
 7. Flexural strength, psi / 3271 / C880 / 600 / 4900.
- BB. Primary Name: Oscuro.

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1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.3 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 168.56 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 9529 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 27.3 / C1353 / 5 / 50.
 7. Flexural strength, psi 1422 / C880 / 600 / 4900.
- CC. Primary Name: Aegean Brown.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.67 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 169.18 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 8050 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 28.6 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1866 / C880 / 600 / 4900.
- DD. Primary Name: Crema Nouva.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.18 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171.68 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 17608 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 36.4 / C1353 / 5 / 50.
 7. Flexural strength, psi / 4807 / C880 / 600 / 4900.
- EE. Primary Name: Black Pearl.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.74 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 169.18 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 19656 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 22.1 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2076 / C880 / 600 / 4900.
- FF. Primary Name: Harvest Brown.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.11 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 168.56 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 20097 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 29.3 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1621 / C880 / 600 / 4900.
- GG. Primary Name: Cappuccino Classic.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.7 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 168.56 / C97 / 142 / (no maximum requirement).

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5. Compressive strength, psi / 20837 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 26.5 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1493 / C880 / 600 / 4900.
- HH. Primary Name: Botticino Royale.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.14 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 167.93 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 7794 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 25.3 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1991 / C880 / 600 / 4900.
- II. Primary Name: Marina Grey.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.4 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 170.43 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 14621 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 22.7 / C1353 / 5 / 50.
 7. Flexural strength, psi / 3614 / C880 / 600 / 4900.
 8. Marina Grey Light.
 9. Marina Grey Dark.
- JJ. Primary Name: Sylvester Beige.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.2 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 167.93 / C97 / 142 / (no maximum requirement)..
 5. Compressive strength, psi / 16214 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 24.4 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2808 / C880 / 600 / 4900.
- KK. Primary Name: Royal Red.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.48 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 156.69 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 22159 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 24.1 / C1353 / 5 / 50.
 7. Flexural strength, psi / 3275 / C880 / 600 / 4900.
- LL. Primary Name: Teos Green
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.24 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 166.68 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 16001 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 26.3 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1635 / C880 / 600 / 4900.

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MM. Primary Name: Rosa Anatolia.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.20 / C97 / 0.06% / 1%.
4. Density, lbs/ ft / 172 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 14493 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 31.3 / C1353 / 5 / 50.
7. Flexural strength, psi / 2417 / C880 / 600 / 4900.

NN. Primary Name: Bianco Mediterranean.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.2 / C97 / 0.06% / 1%.
4. Density, lbs/ ft / 169.7 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 10027 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 24.5 / C1353 / 5 / 50.
7. Flexural strength, psi / 2806 / C880 / 600 / 4900.

OO. Primary Name: Botticcino Classic.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
4. Density, lbs/ ft / 166.68 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 15930 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 26.4 / C1353 / 5 / 50.
7. Flexural strength, psi / 1024 / C880 / 600 / 4900.

PP. Primary Name: Cappuccino Light.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1 %.
4. Density, lbs/ ft / 166.68 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 15930 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 26.4 / C1353 / 5 / 50.
7. Flexural strength, psi / 1024 / C880 / 600 / 4900.

QQ. Primary Name: Afyon White.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
4. Density, lbs/ ft / 171.68 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 9970 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 29.4 / C1353 / 5 / 50.
7. Flexural strength, psi / 2147 / C880 / 600 / 4900.

RR. Primary Name: Sand Beige.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.4 / C97 / 0.06% / 1%.

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4. Density, lbs/ ft / 173 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 12800 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 32.6 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2190 / C880 / 600 / 4900.
- SS. Primary Name: Spill White
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.4 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 9529 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 25 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2284 / C880 / 600 / 4900.
- TT. Primary Name: Giallo Fiorini.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.4 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 160 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 11660 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 22.8 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2290 / C880 / 600 / 4900.
- UU. Primary Name: Nero Imperial.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.3 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 168.15 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 11960 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 27.8 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1094 / C880 / 600 / 4900.
- VV. Primary Name: Crema Lydia.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 170 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 13280 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 29.7 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2089 / C880 / 600 / 4900.
- WW. Primary Name: Giallo Fantasia.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.24 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 170.42 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 15090 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 26.8 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2198 / C880 / 600 / 4900.

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- XX. Primary name: Stellar White.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.4 / C97 / 0.06% / 1 %.
 4. Density, lbs/ ft / 171 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 9529 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 25 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2284 / C880 / 600 / 4900
- YY. Primary name: Crema Nuova Golden.
1. Recommended Usage : Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.18 / C97 / 0.06% / 1 %.
 4. Density, lbs/ ft / 171.68 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 17608 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 36.4 / C1353 / 5 / 50.
 7. Flexural strength, psi / 4807 / C880 / 600 / 4900
- ZZ. Primary name: Gloria Cream.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.24 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171.05 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 14985 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 27.8 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2796 / C880 / 600 / 4900.
- AAA. Primary name: Aspen White.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 171 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 11264 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 17.9 / C1353 / 5 / 50.
 7. Flexural strength, psi / 2262 / C880 / 600 / 4900.
- BBB. Primary name: Nero Africano.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.24 / C97 / 0.06% / 1%.
 4. Density, lbs/ ft / 166.68 / C97 / 142 / (no maximum requirement).
 5. Compressive strength, psi / 16001 / C170 / 6000 / 35000.
 6. Abrasion resistance, hardness / 26.3 / C1353 / 5 / 50.
 7. Flexural strength, psi / 1635 / C880 / 600 / 4900.
- CCC. Primary name: Green Pearl.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.45 / C97 / 0.06% / 1%.

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4. Density, lbs/ ft / 166.06 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 9074 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 28.3 / C1353 / 5 / 50.
7. Flexural strength, psi / 3783 / C880 / 600 / 4900.

DDD. Primary name: Calacatta Nuova.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.2 / C97 / 0.06% / 1%.
4. Density, lbs/ ft / 169 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 16243 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 22.4 / C1353 / 5 / 50.
7. Flexural strength, psi / 4138 / C880 / 600 / 4900.

EEE. Primary name : Milky White.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.1 / C97 / 0.06% / 1%.
4. Density, lbs/ ft / 171 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 11264 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 17.9 / C1353 / 5 / 50.
7. Flexural strength, psi / 2262 / C880 / 600 / 4900.

FFF. Primary name: Rosalia.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.18 / C97 / 0.06% / 1%.
4. Density, lbs/ ft / 167.31 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 17608 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 31.2 / C1353 / 5 / 50.
7. Flexural strength, psi / 4807 / C880 / 600 / 4900.

GGG. Primary Name: Faux Verona.

1. Recommended Usage: Vertical and Flooring.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 0.7 / C97 / 0.06% / 1 %.
4. Density, lbs/ ft / 167.31 / C97 / 142 / (no maximum requirement).
5. Compressive strength, psi / 13441 / C170 / 6000 / 35000.
6. Abrasion resistance, hardness / 29.6 / C1353 / 5 / 50.
7. Flexural strength, psi / 1920 / C880 / 600 / 4900

2.4 LIMESTONE

A. Limestone: Comply with ASTM C 568, Classification as scheduled or required.

B. Primary Name: Mocca.

1. Recommended Usage: Vertical.
2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
3. Absorption by weight, % / 2.7 / C97 / 0.6% / 29%.
4. Density, lbs/ ft / 168.55 / C97 / 110 / (no maximum requirement).

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5. Compressive strength, psi / 14493 / C170 / 1600 / 32000.
 6. Abrasion resistance, hardness / 11 / C1353 / 3 / 33.
 7. Flexural strength, psi / 2420 / C880 / 400 / 2700.
- C. Primary Name: Arctic Silver.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 2.08% / C97 / 0.6 % / 29%.
 4. Density, lbs/ ft / 164 / C97 / 110 / (no maximum requirement).
 5. Compressive strength, psi / 9731 / C170 / 1.6 / 32.
 6. Abrasion resistance, hardness / 19.2 / C1353 / 3 / 33.
 7. Flexural strength, psi / 2022 / C880 / 400 / 2700.
- D. Primary Name: Izmira cream.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 3.4 / C97 / 0.6 % / 29%.
 4. Density, lbs/ ft / 169.8 / C97 / 110 / (no maximum requirement).
 5. Compressive strength, psi / 7111 / C170 / 1600 / 32000.
 6. Abrasion resistance, hardness / 10 / C1353 / 3 / 33.
 7. Flexural strength, psi / 1664 / C880 / 400 / 2700.
- E. Primary Name: Clamshell.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1.24 / C97 / 0.6 % / 29%.
 4. Density, lbs/ ft / 162.9 / C97 / 110 / (no maximum requirement).
 5. Compressive strength, psi / 20595 / C170 / 1.6 / 32.
 6. Abrasion resistance, hardness / 11 / C1353 / 3 / 33.
 7. Flexural strength, psi / 1635 / C880 / 400 / 2700.
- F. Primary Name: Lymra.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 3.5 / C97 / 0.6 % / 29%.
 4. Density, lbs/ ft / 168.56 / C97 / 110 / (no maximum requirement).
 5. Compressive strength, psi / 6400 / C170 / 1600 / 32000.
 6. Abrasion resistance, hardness / 10 / C1353 / 3 / 33.
 7. Flexural strength, psi / 1422 / C880 / 400 / 2700.
- G. Haifa Light.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1.9 / C97 / 0.6 % / 29%.
 4. Density, lbs/ ft / 157 / C97 / 110 / (no maximum requirement).
 5. Compressive strength, psi / 8540 / C170 / 1600 / 32000.
 6. Abrasion resistance, hardness / 16.5 / C1353 / 3 / 33.
 7. Flexural strength, psi / 1827 / C880 / 400 / 2700.
- H. Haifa Gold.

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1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1.9 / C97 / 0.6 % / 29%.
 4. Density, lbs/ ft / 157 / C97 / 110 / (no maximum requirement).
 5. Compressive strength, psi / 8540 / C170 / 1600 / 32000.
 6. Abrasion resistance, hardness / 16.5 / C1353 / 3 / 33.
 7. Flexural strength, psi / 1827 / C880 / 400 / 2700.
- I. Primary Name: Sea Grass.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.35 / C97 / 0.6 % / 29%.
 4. Density, lbs/ ft / 165.81 / C97 / 110 / (no maximum requirement).
 5. Compressive strength, psi / 20647 / C170 / 1600 / 32000.
 6. Abrasion resistance, hardness / 18.6 / C1353 / 3 / 33.
 7. Flexural strength, psi / 2425 / C880 / 400 / 2700.
- J. Primary Name: Black Smoke.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 0.66 / C97 / 0.6% / 29%.
 4. Density, lbs/ ft / 168.15 / C97 / 110 / (no maximum requirement).
 5. Compressive strength, psi / 7109 / C170 / 1600 / 32000.
 6. Abrasion resistance, hardness / 26.9 / C1353 / 3 / 33.
 7. Flexural strength, psi / 2062 / C880 / 400 / 2700.
- K. Primary name: Coral Beige.
1. Recommended Usage: Vertical and Flooring.
 2. Physical Property / Actual Test Data / ASTM Test Method / Minimum Requirement / Maximum Requirement.
 3. Absorption by weight, % / 1.09% / C97 / 0.6 % / 29%.
 4. Density, lbs/ ft / 164 / C97 / 110 / (no maximum requirement).
 5. Compressive strength, psi / 5461 / C170 / 1600 / 32000.
 6. Abrasion resistance, hardness / 17.8 / C1353 / 3 / 33.
 7. Flexural strength, psi / 1450 / C880 / 400 / 2700.

2.5 FABRICATIONS

- A. Tumbled Stone:
1. Black Magic.
 2. Botticino classic.
 3. Emperador Light.
 4. Light beige travertine.
 5. Lymra limestone.
 6. Red travertine.
 7. Silver travertine.
 8. Seagrass.
 9. Salome.
 10. Blue Stone.
 11. Crema Nouva.
 12. Yellow Travertine.
 13. Noce Travertine.

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14. Bianco Mediterranean.
 15. T. Carrara White.
 16. Scabos.
- B. Mesh Mounted Mosaics:
1. Arctic Silver.
 2. Basaltine Bar Mosaic.
 3. Bianco Dolomiti Bar Mosaic.
 4. Beige & Noce Tumbled.
 5. Beige Tumbled Small Pattern.
 6. Beige Tumbled Weave Pattern.
 7. Beige & Yellow Tumbled.
 8. Bianco Silver Bar Mosaic.
 9. Teos Green Papillon.
 10. Light & Noce Travertine Tumbled.
 11. Light & Walnut Travertine Tumbled.
 12. Yellow & Beige Travertine Tumbled.
 13. Noce Travertine Tumbled Brick.
 14. Honey Onyx Tumbled Brick.
 15. Seagrass Limestone Palladian.
 16. Yellow Travertine Tumbled Diamond.
- C. Terrazzo Tiles:
1. CIM-4200-04.
 2. CIM-4200-06.
 3. CIM-4290-04.
 4. CIM-4290-06.
 5. CIM-4000-04.
 6. CIM-4003-06.
 7. CIM-4007-04.
 8. CIM-4010-04.
 9. CIM-4044-04.
 10. CIM-4090-06.
 11. CIM-4110-04.
 12. CIM-4110-06.
 13. CIM-4111-04.
 14. CIM-4111-06.
 15. CIM-4220-04.
 16. CIM-4220-06.
 17. CIM-4222-04.
 18. CIM-4222-06.
 19. CIM-4228-04.
 20. CIMG-4050-06.
 21. CIMG-4058-06.
 22. CIMG-4093-06.
 23. CIMG-4097-06.
 24. CIMG-4098-06.
 25. CIG-4990-06.
 26. CIG-4995-06.
 27. CIG-4997-06.
 28. CIG-4999-06.
 29. PEBBLE.
 30. CIQ-4000-04.
 31. CIQ-4008-04.

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- D. Borders and Mouldings:
 - 1. Refer to drawings and Interior Finish Schedule for shapes required.

- E. Sinks:
 - 1. Corner Tray:
 - a. 7 inches by 20 inches by 20 inches (18 by 50.8 by 50.8 cm).
 - 2. Urn:
 - a. 16 inches by 6 inches (40.6 by 91.5 cm).
 - 3. Square Sink Classic:
 - a. 4 inches by 17.8 inches by 17.8 inches (10 by 45 by 45 cm).
 - 4. Rectangular V Classic:
 - a. 6 inches by 16 inches by 36 inches (15 by 40.6 by 91.5 cm).
 - 5. Rectangular Deep Classic:
 - a. 7 inches by 18 inches by 28 inches (18 by 45.7 by 71 cm).
 - 6. Rectangular Sink Classic:
 - a. 6 inches by 18 inches by 28 inches (15 by 45.7 by 71 cm).
 - 7. Double Eye:
 - a. 7 inches by 18 inches by 36 inches (18 by 45.7 by 91.5 cm).
 - 8. Single Eye:
 - a. 7 inches by 18 inches by 36 inches (18 by 45.7 by 91.5 cm).
 - 9. Semiround:
 - a. 6 inches by 13 inches by 18 inches (15 by 33 by 45,7 cm).
 - 10. Drop-In Bowl:
 - a. 7 inches by R:16 inches (18 by R:40.6 cm).
 - 11. Bowl Sink:
 - a. 6 inches by R:16 inches (15 by R:40.6 cm).
 - 12. Tapered Sink:
 - a. 7 inches by 16.5 inches by 16.5 inches (18 by 42 by 42 cm).
 - 13. Drop In Square Sink:
 - a. 6 inches by 18 inches by 18 inches R:16 inches (15 by 45,7 by 45,7 cm R:40.6 cm).
 - 14. Drop In Oval Sink:
 - a. 7 inches by R:16 inches (18 by R:40.6 cm).
 - 15. Square Sink Type A:
 - a. 6 inches by R:16 inches (15 by R:40.6 cm).
 - 16. Square Sink Type B:
 - a. 6 inches by R:16 inches (15 by R:40.6 cm).
 - 17. Farm Sink:
 - a. 10 inches by 20 inches by 30 inches (25 by 50.8 by 76.2 cm)
 - 18. Farm Sink Embroidered:
 - a. 10 inches by 20 inches by 30 inches (25 by 50.8 by 76.2 cm)
 - 19. Oval Sink:
 - a. 6 inches by R:19 inches (15 by R:48.2 cm).
 - 20. Mosaic Bowl:
 - a. 6 inches by R:19 inches (15 by R:48.2 cm).
 - 21. Deep Vase Sink:
 - a. 6 inches by R:19 inches (15 by R:48.2 cm).
 - 22. Mosaic Palladian:
 - a. 9 inches by R:16 inches (23 by R:40.6 cm).
 - 23. Cylinder:
 - a. 6 inches by R:16 inches (15 by R:40.6 cm).
 - 24. Deep Cylinder:
 - a. 8 inches by R:16 inches (20.3 by R:40.6 cm).

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- F. Tub and Shower Trays:
 - 1. Rectangular Shower Tray Type A
 - a. 4 inches by 19.7 inches by 27.5 inches (10 by 50 by 70 cm).
 - 2. Rectangular Shower Tray Type B
 - a. 4 inches by 31.5 inches by 47.2 inches (10 by 80 by 120 cm).
 - 3. Square Shower Tray
 - a. 4 inches by 31.5 inches by 31.5 inches (10 by 80 by 80 cm).
 - 4. Vessel Tub:
 - a. 23.6 inches by 30 inches by 67 inches (60 by 76 by 170 cm).
 - 5. Vessel Tub Embroidered
 - a. 23.6 inches by 30 inches by 67 inches (60 by 76 by 170 cm).
 - 6. Helmet Tub:
 - a. 22 inches by 30 inches by 55 inches (56 by 76 by 140 cm).
 - 7. Hamam Tub:
 - a. 25.6 inches by R:59 inches (65 by R:150 cm).

2.6 FINISH

- A. Provide the following finishes as scheduled for each stone type selected.
- B. Polished Finish: A glossy surface finish that brings out the full color and character of the stone.
- C. Tumbled Finish: A weathered, aging finished created when the stone is tumbled with sand, pebbles, or steel bearings.
- D. Fill: A trade expression used to indicate the filling of natural voids in stone units with cements or synthetic resins and similar materials.
- E. Filled and Honed: A trade expression used to indicate the filling of natural voids in stone units with cements or synthetic resins and similar materials.
- F. Filled and Polished: A trade expression used to indicate the filling of natural voids in stone units with cements or synthetic resins and similar materials. A glossy surface finish that brings out the full color and character of the stone.
- G. Brushed Finish: Obtained by brushing a stone with a coarse rotary-type wire brush.
- H. Sand Blasted Finish: A matte-textured surface finish with no gloss, finished by application of a steady flow of sand and water under pressure.
- I. Bush Hammered Finish: A mechanical process which produces textured surfaces that vary from subtle to rough.
- J. Honed Finish: A satin-smooth surface finish with little or no gloss, recommended for commercial floors.
- K. Cleft Finish: Rough-surfaced stones such as slated that are cleaved or separated along a natural seam are referred to natural cleft. These types of stones were formed as a result of metamorphic foliation.
- L. Antique Finish: A finish that replicates rusticated or distressed textures. Produced through a mechanical or chemical means to simulate the naturally occurring effects of the aging process.
- M. Flamed Finish: A surface treatment applied by intense heat flaming. Also called

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thermal finish.

2.7 STONE FABRICATION

- A. General: Fabricate stone units in sizes and shapes required to comply with requirements indicated, including details on Drawings and Shop Drawings.
 - 1. For limestone, comply with recommendations in ILI's "Indiana Limestone Handbook."
 - 2. For marble, comply with recommendations in MIA's "Dimensional Stone-- Design Manual IV."

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION