

SPECIFICATION SUPPLEMENT
FOR
GRANITSTONE BY GRANITFIANDRE

SECTION 09310

CERAMIC TILE

GENERAL NOTES TO THE SPECIFIER:

THE SPECIFICATION LANGUAGE CONTAINED IN THIS SUPPLEMENT IS INTENDED TO ASSIST DESIGN PROFESSIONALS IN INCORPORATING GRANITFIANDRE GEOLOGICA INTO EXISTING 3-PART *STONE TILE* OR *CERAMIC TILE* SPECIFICATIONS. GRANITFIANDRE RECOMMENDS INSTALLING GEOLOGICA AS A STONE MATERIAL, HOWEVER, THIS SUPPLEMENT CAN BE USED WITH A STANDARD CERAMIC TILE SECTION IF OTHER TYPES OF TILE ARE BEING SPECIFIED AND THE SPECIFIER DESIRES TO INCORPORATE ALL TYPES IN A SINGLE SECTION.

THIS SUPPLEMENT IS FORMATTED IN ACCORDANCE WITH CSI'S *SECTIONFORMAT* AS AN AID IN QUICKLY IDENTIFYING THE PROPER LOCATION FOR SPECIFICATION INFORMATION. STANDARD ARTICLE AND PARAGRAPH TITLES ARE MAINTAINED FOR CONTINUITY, BUT THOSE WITHOUT FOLLOWING TEXT (SHOWN IN LIGHT GRAY) HAVE NO SPECIAL GRANITFIANDRE REQUIREMENTS.

WHILE ARTICLE AND PARAGRAPH NUMBERS AND TITLES MAY VARY SLIGHTLY FROM THOSE IN MOST MASTER SPECIFICATION SECTIONS, THE LANGUAGE CAN USUALLY BE INCORPORATE WITH ONLY MINOR EDITING.

THIS SUPPLEMENT ASSUMES THE PROJECT MANUAL WILL CONTAIN COMPLETE DIVISION 1 DOCUMENTS INCLUDING SECTIONS 01330–SUBMITTAL PROCEDURES, 01620–PRODUCT OPTIONS, 01630–PRODUCT SUBSTITUTION PROCEDURES, 01660–PRODUCT STORAGE AND HANDLING REQUIREMENTS, 01740–CLEANING, 01770–CLOSEOUT PROCEDURES, AND 01780–CLOSEOUT SUBMITTALS. CLOSE COORDINATION WITH DIVISION 1 SECTIONS IS REQUIRED. IF THE PROJECT MANUAL DOES NOT CONTAIN THESE SECTIONS, ADDITIONAL INFORMATION SHOULD BE INCLUDED UNDER THE APPROPRIATE ARTICLES.

NOTES TO THE SPECIFIER ARE CONTAINED IN BOXES AND SHOULD BE DELETED FROM FINAL COPY.

OPTIONAL ITEMS REQUIRING A SELECTION BY THE SPECIFIER ARE ENCLOSED WITHIN BRACKETS, E.G: [35] [40] [45]. MAKE APPROPRIATE SELECTION(S) AND DELETE OTHERS.

ITEMS REQUIRING ADDITIONAL INFORMATION ARE UNDERLINED BLANK SPACES, E.G: _____ .

OPTIONAL PARAGRAPHS AND FEATURES THAT MAY BE SELECTED OR DELETED AS DESIRED ARE IN BOLD FACE TYPE DELETE BOLD FACE WHEN RETAINING THESE PARAGRAPHS OR FEATURES.

PART 1 - GENERAL

1.01 SUMMARY

1.02 REFERENCES

1.03 DEFINITIONS

- A. Caliber: The last digit, in millimeters, of the actual size of a square tile. For example, a 12 x 12 inch (300 x 300 mm) nominal size tile that is 295 x 295 mm actual size is designated as Caliber 5.

1.04 SYSTEM DESCRIPTION

- A. Performance Requirements:

IF STATIC COEFFICIENT OF FRICTION IS SPECIFIED IN THIS ARTICLE, ADD STATEMENT THAT THESE ARE "MINIMUM" STANDARDS UNLESS OTHERWISE SPECIFIED WITH SPECIFIC TILE TYPES.

1.05 SUBMITTALS

- A. Submit following items:
- B. Closeout Submittals—submit following items:
 - 1. Special Warranties:

1.06 QUALITY ASSURANCE

- A. Certifications:
- B. Pre-Installation Meeting:

ADD THE FOLLOWING TO DISCUSSION ITEMS AT THE PRE-INSTALLATION MEETING

- 1. Review requirements for joint widths.
- 2. Review requirements for tile to be of same caliber.

1.07 DELIVERY, STORAGE, AND HANDLING

1.08 PROJECT/SITE CONDITIONS

1.09 SEQUENCING

1.10 SCHEDULING

1.11 WARRANTY

- A. Special Warranty:
 - 1. Products specified as manufactured by GranitiFiandre shall carry a 100 year wear warranty.

1.12 OWNER'S INSTRUCTIONS

1.13 COMMISSIONING

1.14 MAINTENANCE

PART 2 - PRODUCTS

2.01 MANUFACTURERS

IF A LIST OF ACCEPTABLE MANUFACTURERS IS INCLUDED IN THIS ARTICLE, VERIFY THAT GRANITIFIANDRE IS INCLUDED IN THE LIST.

2.02 TILE PRODUCTS

- A. Granitstone
 - 1. Manufacturer: GranitiFiandre.
 - 2. Series: [Graniti], [Corindo], [Gran Corindo], [Tinte Unite]
 - 3. Physical Properties:

PROPERTY	TEST	RESULT
Water Absorption	ASTM C 373	#0.036%
Size Range of thickness Average facial dim. Warpage – on any edge Warpage – on diagonal Wedging	ASTM C 499	0.013 0.40% 0.24% 0.18% 0.59%
Bond Strength	ASTM C 482	>300 psi
Abrasive Hardness	ASTM C 501	253
Robinson Floor Test	ASTM C 627	14 Cycles – Extra Heavy
Thermal Shock Resistance	ASTM C 484	Resistant
Frost Resistance	ASTM C 1026 C 1028 C 674	Frost Proof
Chemical Resistance	ASTM C 650	Unaffected
Breaking Strength	ASTM C 648	>500 psi
Color Resistance to Light	DIN 51094	No Change
Impact Resistance	ASTM C 368	44.9 psi

INSERT DESIGNATION FOR TILE TYPE, SUCH AS "CT-1"

4. Tile Type: _____

IF MORE THAN ONE PRODUCT NAME, COLOR, FINISH, OR SIZE (FACE DIMENSION) IS REQUIRED FOR A SPECIFIC PROJECT, REPEAT PARAGRAPH 4 AND SUBPARAGRAPHS FOR EACH DIFFERENT TYPE REQUIRED.

- a. Product Name: [Graniti] [Corindo] [Gran Corindo] [Tinte Uniti] [Industrial] [As shown on Drawings].
- b. Color Number/Name: [_____/_____] [As shown on Drawings].

FINISH, COEFFICIENT OF FRICTION, FACE DIMENSION, AND TRIM AVAILABILITY VARY DEPENDING ON THE PRODUCT NAME SELECTED. SELECT FROM GEOLOGICA BROCHURE OR WEBSITE, <http://www.granitifandre.com/>, AND INSERT BELOW.

- c. Finish: [Polished] [Semi-Matte] [Matte] [Slate] [SRA][SRB] [Industrial][SR1] [SR2] [ADA] [As shown on Drawings].
- d. Coefficient of Friction: _____.

SELECT APPROPRIATE SIZE AND THICKNESS FROM GEOLOGICA BROCHURE OR WEBSITE, <http://www.granitifandre.com/> AND INSERT BELOW, OR SELECT "AS SHOWN ON DRAWINGS."

- e. Size: [___ x ___ x ___ inch (___ x ___ x ___ mm)] [As shown on Drawings].

f. Trim Unit and Size:

- 1) _____
- 2) _____
- 3) _____

5. **Caliber: Provide Granitstone of the same caliber when different product names, colors, or finishes are set in the same field with joints less than 1/8 inch (3.2 mm).**

- 2.03 STONE THRESHOLDS
- 2.04 WATERPROOFING FOR THIN-SET TILE INSTALLATIONS
- 2.05 SETTING MATERIALS
- 2.06 GROUTING MATERIALS
- 2.07 SEALANTS
- 2.08 CEMENTITIOUS BACKER UNITS
- 2.09 MISCELLANEOUS MATERIALS
- 2.10 MIXING MORTAR AND GROUT

PART 3 - EXECUTION

3.01 EXAMINATION

INCLUDE THE FOLLOWING STATEMENT IF GEOLOGICA IS SPECIFIED TO BE OF SAME CALIBER.

A. Verify that Granitstone is calibrated to facilitate the specified joint width.

3.02 PREPARATION

3.03 INSTALLATION

A. General:

GRANITIFIANDRE SUGGESTS THAT GRANITSTONE CAN BE INSTALLED WITH 1/16 TO 1/4 INCH JOINTS.

B. Joint Widths:

- 1. Granitstone: [1/16 inch (1.6 mm)] [3/32 inch (2.4 mm)] [1/8 inch (3.2 mm)] [1/4 inch (6.4 mm)].**

3.04 CLEANING

3.05 PROTECTION

3.06 SCHEDULES