

SHORT FORM GUIDELINE SPECIFICATION

Section 09300 Ceramic Tile

Section 1 - Products

1.1 Porcelain or ceramic tile shall be of standard grade quality as manufactured by Crossville Inc. of Tennessee, and shall conform to requirements of ANSI A-137.1-1988.

Type: Porcelain tile surface shall be _____ (Insert)

- | | | |
|-------------------|---|------------------|
| Cross-Sheen [UPS] | Unpolished [UP] | Polished [PO] |
| Cross-Tread [CTS] | Cross-Dot [CD] | Cross-Grip [CGS] |
| Cross-Slate [CS] | Cross-Plus [CP] | Exterior [XT] |
| Cross-Grid [CG] | Cross-Colors Mosaics [UPS], [GL], [CTS] | |

Size: Porcelain tile shall be manufactured to specific size after firing and shall be Nominal-_____ (Insert) all measurements are in inches unless otherwise specified.

*Denotes mounted mosaics, refer to manufacturer's literature or go to crossvilleinc.com for specific dimensions of mounted sheet.

| Nominal | Actual |
|-----------------|------------------------|
| *1 x 1 x 5/16 | 1 ¼ x 1 ¼ x 5/16 |
| 1 x 1 x 3/8 | 1 x 1 x 3/8 |
| *1 x 2 x 5/16 | 1 ¼ x 2 5/8 x 5/16 |
| *1 x 3 x 5/16 | 1 ¼ x 4 x 5/16 |
| *2 x 2 x 3/8 | 2 ¼ x 2 ¼ x 3/8 |
| *3 x 3 x 3/8 | 2 ¾ x 2 ¾ x 3/8 |
| *3 x 3 x 1/4 | 2 7/8 x 2 7/8 x ¼ |
| 3 x 6 x 3/8 | 3 x 6 x 3/8 |
| 3 x 6 x 3/8 | 2 ¾ x 5 5/8 x 3/8 |
| 3 x 6 x 3/8 | 2 7/8 x 5 ¾ x 3/8 |
| 3 x 12 x 3/8 | 2 7/8 x 11 ¾ x 3/8 |
| *4 x 4 x 3/8 | 3 ¾ x 3 ¾ x 3/8 |
| 4 ½ x 4 ½ x 3/8 | 4 ½ x 4 ½ x 3/8 |
| 4 x 8 x 3/8 | 3 ¾ x 7 ¾ x 3/8 |
| 6 x 6 x 5/16 | 5 ¾ x 5 ¾ x 5/16 |
| 6 x 6 x 3/8 | 5 ¾ x 5 ¾ x 3/8 |
| 6 x 6 x 3/8 | 6 x 6 x 3/8 |
| 6 ½ x 6 ½ x 3/8 | 6 ½ x 6 ½ x 3/8 |
| 6 x 12 x 5/16 | 5 ¾ x 11 ¾ x 5/16 |
| 6 x 12 x 3/8 | 5 ¾ x 11 ¾ x 3/8 |
| 6 x 24 x 3/8 | 5 ¾ x 23 7/8 x 3/8 |
| 7 x 7 x 5/16 | 6 ¾ x 6 ¾ x 5/16 |
| 8 x 8 x 5/16 | 7 ¾ x 7 ¾ x 5/16 |
| 8 x 8 x 3/8 | 7 ¾ x 7 ¾ x 3/8 |
| 8 x 12 x 5/16 | 7 ¾ x 11 ¾ x 5/16 |
| 8 x 13 x 5/16 | 7 7/8 x 13 1/8 x 5/16 |
| 12 x 12 x 1/4 | 11 7/8 x 11 7/8 x ¼ |
| 12 x 12 x 5/16 | 11 ¾ x 11 ¾ x 5/16 |
| 12 x 12 x 3/8 | 11 ¾ x 11 ¾ x 3/8 |
| 12 x 12 x 3/8 | 12 ¼ x 12 ¼ x 3/8 |
| 12 x 18 x 3/8 | 11 ¾ x 17 ¾ x 3/8 |
| 12 x 18 x 3/8 | 12 ¼ x 18 3/8 x 3/8 |
| 12 x 24 x 3/8 | 11 ¾ x 23 7/8 x 3/8 |
| 12 x 24 x ½ | 11 ¾ x 23 ½ x ½ |
| 13 x 13 x 5/16 | 13 1/8 x 13 1/8 x 5/16 |
| 13 x 13 x 3/8 | 13 x 13 x 3/8 |
| 14 x 14 x 5/16 | 13 5/8 x 13 5/8 x 5/16 |
| 14 x 28 x 3/8 | 13 5/8 x 27 ¼ x 3/8 |
| 16 x 16 x 3/8 | 15 ¾ x 15 ¾ x 3/8 |
| 18 x 18 x 3/8 | 17 ½ x 17 ½ x 3/8 |
| 18 x 18 x 3/8 | 17 ¾ x 17 ¾ x 3/8 |
| 18 x 18 x 3/8 | 18 3/8 x 18 3/8 x 3/8 |
| 20 x 20 x 3/8 | 19 ½ x 19 ½ x 3/8 |
| 24 x 24 x ½ | 23 ½ x 23 ½ x ½ |

Thickness: Porcelain tile shall be manufactured to specific thickness after firing and shall be nominal _____ ([8.0 mm or greater] for large unit tile or [6.0 mm or greater] for mosaics).

Color: Porcelain tile shall be furnished in _____ (Insert Crossville color name and number).

Trim: According to availability, provide matching trim shapes such as bullnose corners, cove base and borders when specified.

1.2 Setting Materials: Use appropriate installation mortars according to ANSI A118-1999. When using Organic Adhesives refer to ANSI A136.1999.

1.3 Grouting Materials: Select liquid latex grout per ANSI A118.3, A118.5, A118.6, A118.7 or A118.8-1999.
Provide grout in colors selected by the Architect from standard colors available from the approved manufacturers.

1.4 Waterproofing/Anti Fracture Membrane: Select per ANSI A118.10-1999 as required.

Section 2 - Installation

2.1 Acceptability of Surfaces

A. Before tiling, verify that all surfaces to be tiled are structurally sound true to plane, and fall within maximum variations shown below:

Walls

1/4 " in 10'*

(Depending on Substrate)

Floors

1/4 " in 10'*

(Depending on Substrate)

* When using tile larger than 12"x12" and a grout joint narrower than 1/4" is desired, a more stringent tolerance (e.g., 1/8" in 10'), should be considered.

Report all unacceptable surfaces to the architect in writing, and do not tile such surfaces until they are leveled enough to meet above requirements.

B. Before tiling, all surfaces must be free of curing compounds, oil, grease, wax, dirt, dust, form releases or other substances that would interfere with proper bond of setting materials. If tile is installed by the thin-set method, concrete slabs shall be steel trowel or light broom finish.

2.2 Setting Methods

Comply with appropriate ANSI A108-1999 specification and current Tile Council of America Handbook for appropriate method of installation for each specification. For thin set adhesive mortar application use following technique: with the flat side of trowel, key mortar into substrate. Using the appropriate size trowel, comb mortar in one direction with notched side of the trowel. Set tile with a sliding motion, perpendicular to the mortar ridges. Obtain as near 100% coverage as possible of mortar to tile. Mortar coverage shall be no less than 85% and shall be sufficiently distributed to give full support under all corners and edges of the tile. Note: 95-100% coverage is mandatory for wet and exterior areas. Periodically, remove sheets or individual tiles to assure proper bond coverage consistent with industry specifications.

Ensure there is a minimum 1/8" of mortar between tile and substrate after proper bedding. Installer must periodically remove sheets or individual tiles to assure proper bond coverage consistent with industry specifications. If coverage is found to be insufficient, use a larger size notch trowel.

2.3 Expansion Joints

Install architecturally designed expansion joints as per current TCA Detail EJ171. Prefabricated expansion joint strips can also be used when suitable.

2.4 Grouting Methods

Follow exactly grout manufacturer's instructions and comply with appropriate ANSI A108-1999 specification depending on type of grout selected. Grouting is not complete until all grout haze and residues are removed from the surface of the tile.

2.5 Cleaning and Protection

- A. Leave finished installation free of cracked, chipped, broken, unbonded or otherwise defective tile work.
- B. Protect all floor tile installations with clean construction paper or other heavy covering during construction period to prevent staining or damage.
No foot or wheel traffic permitted on floor for at least 3 days after grouting.

NOTE: This specification is provided as a guide and should be edited as required for project, product and method selection. Long-Form Specification is available upon request.

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