

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 09 29 00 – Gypsum Board.
- .2 Section 09 65 00 – Resilient Flooring.

1.2 REFERENCES

- .1 American National Standards Institute (ANSI).
 - .1 ANSI A108/A118/A136.1-2009, American National Standards for Installation of Ceramic Tile.
 - .2 ANSI A137.1-2008, American National Standards Specifications for Ceramic Tile.
- .2 Terrazzo Tile and Marble Association of Canada (TTMAC).
 - .1 Specification Guide 09 30 00 Tile Installation Manual 2009-2010.
- .3 Workplace Hazardous Materials Information System (WHMIS).

1.3 SUBMITTALS

- .1 Samples.
 - .1 Submit samples in accordance with Section 01 33 00.
 - .2 Submit 300 x 300 mm sample panels of each colour, texture, size, and pattern of tile. Adhere tile samples to 19 mm thick plywood and grout joints to represent project installation.
- .2 Closeout Submittals.
 - .1 Provide maintenance data for incorporation into Operation and Maintenance Manual specified in Section 01 78 00.

1.4 QUALITY ASSURANCE

- .1 Regulatory Requirements.
 - .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials; and regarding labeling and provision of material safety data sheets acceptable to Labour Canada.

1.5 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver all material to site in manufacturer's original unopened packaging with labels clearly identifying product name and manufacturer.

- .2 Store materials in a dry, enclosed area protected from exposure to moisture, construction activity, and direct sunlight in strict accordance with manufacturer's recommendations.
- .3 Handle all products with appropriate precautions and care as stated manufacturer's instructions to avoid chipping edges or damaging units in any way.
- .4 Cleaning and Waste Management in accordance with Section 01 74 00.

1.6 MAINTENANCE

- .1 Comply with requirements of Section 01 78 00.
- .2 Provide maintenance materials as follows:
 - .1 Ceramic Tile Units and Adhesive: supply quantity of full-size units equal to 5 percent of amount installed for each type of unit. Provide can of adhesive of quantity sufficient to install maintenance materials.
 - .3 Maintenance materials to be from same production run as installed materials.

Part 2 Products

2.1 MANUFACTURERS

- .1 Acceptable Products.
 - .1 Ceramic Wall Tile (CT).
 - .1 Field (CT1).
 - .1 Olympia Tile Colour & Dimensions Collection, 4.25" x 4.25", Silver Grey Bright, Code #QT.CD.SGR.0404.BR.
 - .2 Accent (CT2).
 - .1 Daltile Permabrites, 2" x 2", Desert Gray 6464.
 - .3 Accent (CT3).
 - .1 Daltile Permabrites, 2" x 2", Chianti 6494.
 - .2 Extruded Metal Outer Corner Protection (at outer corners and along bottom of wall tiles).
 - .1 Schluter® QUADEC-Q-80-E (stainless steel).

2.2 MATERIALS

- .1 Ceramic Wall Tile (CT): to ANSI A137.1, glazed ceramic wall tiles, square edge tiles, colour as specified.

- .2 Thin Set Adhesive: polymer modified thin-set adhesive to ANSI A108/A118/A136.1 that provides maximum non-sag performance on walls, reinforced with Kevlar® to provide maximum strength and durability, inhibits the growth of stain-causing mold and mildew in substrates with Microban® antimicrobial product protection, Greenguard certified.
- .3 Epoxy Grout: high performance non-sag epoxy grout to ANSI A108/A118/A136.1 that offers color uniformity, durability and stain resistance with extraordinary ease of use, inhibits the growth of stain-causing mold and mildew in substrates with Microban® antimicrobial product protection, Greenguard certified, colour to be selected from manufacturer's entire selection.
- .4 Water: potable, clean, and free of chemicals and contaminants detrimental to adhesive or grout mixes.

2.3 ACCESSORIES

- .1 Extruded Metal Outer Corner Protection (at outer corners and along bottom of wall tiles): stainless steel profile that finishes and protects edges at outside corners of tiled surfaces, profile forms 8 mm (5/16") square outer corner along the surface edge, continuous length, size to suit tile.

Part 3 Execution

3.1 PREPARATION

- .1 Ensure surfaces are plum, level, smooth and dry, free of irregularities or loose material, and meet all requirements listed in TTMAC Tile Specification Guide and ANSI A108/A118/A136.1.
- .2 Work penetrating substrate to be completed before installing tile.
- .3 Seal and prime wall surfaces as required to receive ceramic wall tile in accordance with manufacturer's instructions.

3.2 INSTALLATION

- .1 Install materials in accordance with TTMAC Tile Specification Guide, ANSI A108/A118/A136.1, and manufacturer's printed instructions.
- .2 Lay out all tile work according to drawings and patterns so that perimeter and all cut tiles are no less than one half in size and locate cuts so as to be least conspicuous.
- .3 Align all joints to give straight grout lines parallel to walls. Make internal angles square, external angles bullnosed.

- .4 Install extruded metal corner protection at outer corners and along bottom of wall tiles.
- .5 Fit tile around corners, fitments, fixtures, and other built-in objects to maintain uniform joint appearance. Make cut edges smooth, even and free from chipping. Edges resulting from splitting not acceptable.
- .6 For tile with raised or textured backs, bonding material must be pressed into back of tile to ensure min. of 95% coverage. Set tile in place while bond coat is wet and tacky, prior to skinning over. Slide tile back and forth to ensure proper bond and level surface. Avoid lippage by leveling tiles to conform to 1 mm tolerance over 3 mm joint. Backbutter as required, to ensure 95% bond coverage (backbutter by applying adhesive to back of tile using flat edge of trowel). Clean backs of tiles to ensure proper bonding. Clean excess mortar from surface, prior to mortar setting. Sound tiles after setting and replace any hollow sounding tiles before grouting.
- .7 When appropriate, mix tiles from several boxes prior to installation to assure that colour variations from tile to tile are evenly distributed throughout field.
- .8 Follow grout manufacturer's recommendations as to grouting procedures and precautions.
- .9 Clean all surfaces after completion of grouting and remove any grout haze.

3.3 PROTECTION

- .1 Protect wall tiles from impact, vibration, heavy hammering on adjacent surfaces for at least 14 calendar days after installation.

END OF SECTION