
**Washroom Buildings Recapitalization
Buildings 32, 34 & 38
Newman Sound Campground
Terra Nova National Park, NL
Proj. No.: R.079272.001**

Issued April 4, 2016

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PART 1 - GENERAL

1.1 Related Sections

- .1 Section 07 90 00 - Joint Sealing.

1.2 References

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM C 144-04, Standard Specification for Aggregate for Masonry Mortar.
 - .2 ASTM C 207-91(1997), Standard Specification for Hydrated Lime for Masonry Purposes.
 - .3 ASTM C 847-09, Standard Specification for Metal Lath.
- .2 American National Standards Institute (ANSI)
 - .1 ANSI A118.1-2006, Specifications for Dry-Set Portland Cement Mortar.
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-51.34-M86, Vapour Barrier, Polyethylene Sheet for Use in Building Construction.
 - .2 CGSB 71-GP-22M, Adhesive, Organic, for Installation of Ceramic Wall Tile.
 - .3 CAN/CGSB-75.1-M88, Tile, Ceramic.

1.3 Samples

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit duplicate 300 x 300 mm sample panels of each colour, texture, size, and pattern of tile.
- .3 Adhere tile samples to 11 mm thick plywood and grout joints to represent project installation.

1.4 Maintenance Material

- .1 Provide maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Provide minimum 2% of each type and colour of tile required for project for maintenance use. Store where directed by Departmental Representative.
- .3 Maintenance material to be of same production run as installed material.

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1.5 Environmental Conditions

- .1 Maintain air temperature and structural base temperature at ceramic tile installation area above 12 °C for 48 h before, during, and 48 h after, installation.

PART 2 - PRODUCTS

2.1 Wall Tile

- .1 Porcelain tile: to ANSI A137.1, 300x600x6mm field tile, and two accent tiles at 150x600x6mm. Allow for a minimum of one field and two accents per room. Colour as selected by Departmental Representative.
 - .1 Acceptable material: Regal as manufactured by Olympia Tile, Antiga as manufactured by CeraGres, and Stone Tech as manufactured by Centura.

2.2 Floor Tile

- .1 Porcelain tile: to ANSI A137.1, Tile slip rating R10, 300x300x6mm field tile, and accent tile. Allow for a minimum of one field and one accent per room. Colour as selected by Departmental Representative.
 - .1 Acceptable material: Pizzara as manufactured by Olympia Tile, millenarie as manufactured by CeraGres, and Vermont as manufactured by Centura.

2.3 Mortar and Adhesive Materials

- .1 Tile setting materials for wall tiles: to ANSI A118.4, single component, polymer modified, thin-set mortar.
- .2 Water: potable and free of minerals which are detrimental to mortar and grout mixes.

2.4 Grout

- .1 Grout: to ANSI A118.6, to be used in all tile joints to be polymer-modified hydraulic tile grout. Colour to be chosen from extended colour range by the Departmental Representative.

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PART 3 - EXECUTION

3.1 Workmanship

- .1 Do tile work in accordance with Installation Manual 200 , "Ceramic Tile", produced by Terrazzo Tile and Marble Association of Canada (TTMAC), except where specified otherwise.
- .2 Mix and apply tile setting materials in accordance with the manufacturer's printed instructions.
- .3 Apply tile to clean and sound surfaces.
- .4 Fit tile around corners, fitments, fixtures, drains and other built-in objects. Maintain uniform joint appearance. Cut edges smooth and even.
- .5 Maximum surface tolerance 1:800.
- .6 Make joints between tile uniform and approximately 3 mm wide, plumb, straight, true, even and flush with adjacent tile. Ensure sheet layout not visible after installation. Align patterns.
- .7 Lay out tiles so perimeter tiles are minimum 1/2 size.
- .8 Sound tiles after setting and replace hollow-sounding units to obtain full bond.
- .9 Make internal angles square, external angles rounded.
- .10 Use round edged tiles at termination of wall tile panels, except where panel abuts projecting surface or differing plane.
- .11 Install edge protection at top of all tile surfaces and continue around all edges of washroom accessories.
- .12 Construct base to heights as indicated on the drawings. Tops of bases to be bevelled where no dado occurs above (cut tile edge not acceptable).
- .13 Align base joints with floor joints.
- .14 Install divider strips at junction of tile flooring and dissimilar materials.
- .15 Allow minimum 24 h after installation of tiles, before grouting.
- .16 Clean installed tile surfaces after installation and grouting cured.
- .17 Provide control joints at 4,800 mm maximum in each direction. Make joint width same as tile joints. Keep building expansion joints free of mortar and grout.

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