

PART 1 - GENERAL

- 1.1 RELATED SECTIONS .1 Section 01 33 00 - Submittal Procedures.  
.2 Section 01 78 00 - Closeout Submittals.  
.3 Section 07 92 10 - Joint Sealants.
- 1.2 REFERENCES .1 American National Standards Institute  
ANSI)/Ceramic Tile Institute (CTI)  
.1 ANSI A108.1-99, Specification for the  
Installation of Ceramic Tile (Includes ANSI  
A108.1A-C, 108.4-.13, A118.1-.10, ANSI  
A136.1).  
.2 CTI A118.3-92, Specification for Chemical  
Resistant, Water Cleanable Tile Setting and  
Grouting Epoxy and Water Cleanable Tile  
Setting Epoxy Adhesive (included in ANSI  
A108.1).  
.3 CTI A118.4-92, Specification for Latex  
Portland Cement Mortar (included in ANSI  
A108.1).  
.4 CTI A118.5-92, Specification for Chemical  
Resistant Furan Resin Mortars and Grouts for  
Tile Installation (included in ANSI A108.1).  
.5 CTI A118.6-92, Specification for Ceramic  
Tile Grouts (included in ANSI A108.1).
- .2 American Society for Testing and Materials  
(ASTM International) International  
.1 ASTM C 144-99, Specification for  
Aggregate for Masonry Mortar.  
.2 ASTM C 207-91(1997), Specification for  
Hydrated Lime for Masonry Purposes.  
.3 ASTM C 847-95(2000), Specification for  
Metal Lath.  
.4 ASTM C 979-99, Specification for  
Pigments for Integrally Coloured  
Concrete.
- .3 Canadian General Standards Board (CGSB)  
.1 CAN/CGSB-51.34-M86(R1988), Vapour Barrier,  
Polyethylene Sheet for Use in Building  
Construction.  
.2 CGSB 71-GP-22M-78, Adhesive, Organic, for  
Installation of Ceramic Wall Tile.  
.3 CAN/CGSB-75.1-M88, Tile, Ceramic.

CERAMIC TILING

- .4 CAN/CGSB-25.20-95, Surface Sealer for Floors.
- .4 Canadian Standards Association (CSA International)
  - .1 CAN/CSA-A3000-98, Cementitious Materials Compendium (Consists of A5-98, A8-98, A23.5-98, A362-98, A363-98, A456.1-98, A456.2-98, A456.3-98).
  - .2 CSA A123.3-98, Asphalt Saturated Organic Roofing Felt.
- .5 Terrazzo Tile and Marble Association of Canada (TTMAC)
  - .1 Specification Guide 09300 2000, Tile Installation Manual.
  - .2 Tile Maintenance Guide 2000.
- 1.3 PRODUCT DATA
  - .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.
  - .2 Include manufacturer's information on:
    - .1 Ceramic tile, marked to show each type, size, and shape required.
- 1.4 SAMPLES
  - .1 Submit samples in accordance with Section 01 33 00 Submittal Procedures.
  - .2 Floor tile: submit duplicate sample panels of each colour, texture, size, and pattern of tile.
- 1.5 DELIVERY, STORAGE AND HANDLING
  - .1 Deliver materials in containers with labels legible and intact and grade-seals unbroken.
  - .2 Store material so as to prevent damage or contamination.
  - .3 Store materials in a dry area, protected from freezing, staining and damage.
- 1.6 WASTE MANAGEMENT AND DISPOSAL
  - .1 Separate and recycle waste materials in accordance with Section 01 74 19 - Construction/Demolition Waste Management And Disposal.
  - .2 Remove from site and dispose of all packaging

CERAMIC TILING

materials at appropriate recycling facilities.

- .3 Collect and separate for disposal paper plastic polystyrene corrugated cardboard packaging material in appropriate on-site for recycling in accordance with Waste Management Plan.

1.7 EXTRA 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.
- .3 Maintenance material to be of same production run as installed material.

PART 2 PRODUCTS

2.1 FLOOR TILE

- .1 Porcelain tile: to CAN/CGSB-75.1 Class MR (02 -3.0%), 600 x 600 x 20 mm size "Quarzite" look, European made.
  - .1 Water absorption:  $\leq 0.5\%$
  - .2 UNI EN ISO 10545/4: breaking strength, compliant
  - .3 UNI EN ISO 10545/4: stress rupture(S), compliant
  - .4 Frost resistance: frost proof
  - .5 Stain resistance: 4
  - .6 Thickness: 20mm
  - .7 Static coefficient of friction:
    - .1 A+B+C
    - .2 R12
    - .3  $\geq 0.42$

2.2 ACCESSORIES

- .1 Adjustable polypropylene supports; allows removable tile, suitable for exterior roof deck, not fastened to roof, European made.
  - .1 Compatible with 20mm thick tile, as specified.
  - .2 Various heights as required by roof slope conditions to allow for a level installation.

PART 3 - EXECUTION

3.1 WORKMANSHIP

- .1 Do tile work in accordance with TTMAC Tile Installation Manual 2000, "Ceramic Tile", except where specified otherwise.
- .2 Apply tile to clean and sound surfaces.
- .3 Fit tile around corners, fitments, fixtures, drains and other built-in objects. Maintain uniform joint appearance. Cut edges smooth and even. Do not split tiles.
- .4 Maximum surface tolerance 1:800.
- .5 Make joints between tile uniform and approximately 1.5 mm wide, plumb, straight, true, even and flush with adjacent tile. Ensure sheet layout not visible after installation. Align patterns.
- .6 Lay out tiles so perimeter tiles are minimum 1/2 size.

3.2 FLOOR TILE

- .1 Install in accordance with TTMAC details.

3.3 FLOOR SEALER AND PROTECTIVE COATING

- .1 Apply in accordance with manufacturer's instructions.

END OF SECTION