

PART 1 GENERAL

1.1 REFERENCE

- .1 Comply with the General Conditions of the Contract, Supplementary General Conditions and the requirements of Division 1.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- .1 Cast in Place Concrete Section 03300
- .2 Unit Masonry Section 04200
- .3 Sealants Section 07900

1.3 SCOPE OF WORK INCLUDED

- .1 Supply and installation of Floor Tile and Base and Quarry Tile and Base as noted on drawings, and in schedules.

1.4 SUBMITTALS

- .1 Submit three [3] samples of each colour and product of each type of tile, grout and metal division strip, mounted on tempered hardboard, clearly identifying manufacturer's name, colour and project number, all in accordance with Section 01340.
- .2 Samples will serve as the standard for subsequent work.

1.5 QUALIFICATION

- .1 Work of this section shall be executed by a company who is a member in good standing of the Terrazzo, Tile and Marble Association of Canada [TTMAC].

1.6 MAINTENANCE MANUAL

- .1 Provide triplicate set of printed maintenance instructions for inclusion in Data Manual as specified in Division 1.

1.7 MAINTENANCE MATERIAL

- .1 Provide 2% extra of each tile type from same production run, boxed to prevent breakage, for future maintenance work.

PART 2 PRODUCTS

2.1 MATERIALS

.1 Ceramic Tile Flooring: (see drawings for location)

.1 Ceramic Tile - 6" cut base at all wall surfaces throughout building. Floor ceramic tile will wrap up wall vertically to a 6 " height throughout the entire building wherever ceramic tile occurs. Note ceramic tile that occurs in shower stalls wraps the door opening jamb and head and returns for 6" on the exterior walls outside the shower stall (typical) - all exterior corners at these door locations and shower pocket locations will be trimmed with Schluter Rondec RO 60 AE.

Types :

- CT-1 Ceramic Floor Tile - Centura Colour - Slate Series
Dark Grey Proposta 7
Random 5 Tile Pattern composed of:
152mm x 152mm
305mm x 305mm
457mm x 457mm
305mm x 610mm
610mm x 610mm
- CT-2 Ceramic Floor Tile - Grey Field Tile with Speckle in
Shower Areas
Centura - Vitra - Dotti D. Grey Unglazed
51mm x 51mm
- WCT-1 Ceramic Wall Tile - White in Kitchen / Washroom
Arkitekt White VIT 507920
100mm x 100mm
- WCT-2 Ceramic Wall Tile - Black in Kitchen / Washroom
Arkitekt Black VIT 507975
100mm x 100mm
- WCT-3 Centura Ceramic Wall Tile - White Field Tile
with Grey Speckle in Shower Areas
Centura - Vitra - Maski Dot Super White Unglazed
51mm x 51mm
- WCT-4 Ceramic Wall Tile - Grey Accent Tile with Speckle in
Shower Areas
Centura - Vitra - Dotti D. Grey Unglazed
51mm x 51mm

- .2 Adhesive: TEC TA390 - full flex thin set mortar
- .3 Grout :
 - GR-1 for CT-1 / CT-2 = # **929 Charcoal Grey**
 - GR-2 in Kitchen backsplash for WCT-1 / WCT-2 = **Black**
 - GR-3 in Washroom & Shower Walls
for WCT-1 / WCT-2 / WCT-3 / WCT-4 = **White**
- .4 Water : clean and free from oil, acid, alkali, organic matter or other deleterious substances.
- .5 Hydrated Lime : to ASTM C206-76.
- .6 Transition Strips: Metal edge trim shall be Schluter or approved equal. Rubber trims shall be Mercer or equal.
 - .1 Schluter trims : Mosaic Floor Tile Base Cap Rondec RO 60 AE :
all vertical and horizontal terminations with concrete block
Schluter trims : Mosaic Wall Tile Rondec RO 60 AE :
all exterior corners.
Schluter trims : Glazed Wall Tile Rondec RO 60 AE :
Transition from wall tile to concrete block.
 - .2 Schluter trims : Ceramic Floor Tile Base Cap Rondec RO 100 AE.
 - .3 Schluter trims : Transition from Ceramic Floor Tile to
Concrete Reno U AEU100.
 - .4 Schluter Schiene trims : Transition from Rubber Matt to
Concrete RENO AEU125.
 - .5 Schluter trim :Transition from Ceramic Tile to Carpet
RENO TK AETK100.
 - .6 Schluter Control Joint: Dilex BWS 80 XX
Layout per architectural drawing - discuss control joint
locations with architect prior to installation.
- .7 Sealants: Conform to Section 07900.

PART 3 EXECUTION

3.1 EXAMINATION

- .1 Prior to commencement of tile application over either concrete or concrete block surfaces, examine surface for tolerances using 8' metal straight edge.
- .2 Where tolerance exceed 1/8" in 8' advise consultant for permission to take remedial action of applying levelling coat as extra work to the contract.

- .3 Block wall surfaces must have struck joints, and any concrete block scores / reveals must be filled. Co-ordinate with Section 04200 for preparation for ceramic work area.

Flat face block on the inside of the shower walls would be the ideal situation for the Ceramics to adhere to with a single score facing to the exterior (kitchen dado and washroom dados similar).

3.2 INSTALLATION - GENERAL

- .1 Prepare materials and set tile in accordance with Terrazzo, Tile and Marble Association of Canada Specifications except where specified otherwise below :
 - .1 Set floor / wall tile with thin set mortar bed - TA 390.
- .2 Maintain joints at 1/8" for all types of tile.
- .3 Set tile flat and level with uniform joints throughout, properly aligned. Provide uniform slopes to floor drains. Feather floor tile to allow transition at rubber tile to be flush
- .4 Lay out tile work so that tiles less than 1/2 full size do not occur and with minimum of cutting. Carefully grind edges of cut tile.
- .5 Back up tile coves, curbs and other shaped pieces solidly with mortar. Rigidly set, reinforce and otherwise make firm and secure such pieces.
- .6 Keep face of tile joints clean of setting compound.
- .7 Replace cracked or damaged tile.
- .8 Do necessary cutting and drilling at fixtures, fittings and built-in units without marring the tile.
- .9 During installation and curing, maintain air temperatures above 7 degrees C. and perform no work when temperature is likely to exceed 30 degrees C. Observe recommended working temperatures of additives and bonding agents.
- .10 Unless otherwise shown, set floor and wall tile in running bond with straight joints.
- .11 Observe Architect's layout for tile patterning and discuss control locations with Architect.
- .12 Unless otherwise detailed, arrange accessories in tile work so that they are evenly spaced, centred with joints and set true with correct projections.
- .13 Observe all adjacent materials and transition division strips.

3.3 INSTALLATION - FLOOR TILE LAID IN THIN SET

- .1 Set tile in thin set bond coat in accordance with the respective TTMAC specifications.
- .2 Prepare thin set mortar and grout in accordance with the manufacturer's printed instructions.
- .3 Prime concrete surfaces with Monobond Prior to application of bond coat and in accordance with manufacturer's recommendations.
- .4 Apply thin set mortar over surfaces to receive floor tile. Provide minimum thickness of 3/8" and sufficient mortar for tile surface to finish at the correct elevation.
- .5 Spread only sufficient mortar that can be covered by the tile before skinning or initial set takes place.

3.4 INSTALLATION - WALL TILE SET IN ADHESIVE

- .1 Set wall tile in adhesive Specified as per manufacturer's written instruction.
- .2 Spread only sufficient adhesive that can be covered by the tile before skinning or initial set takes place.

3.5 INSTALLATION - GROUTING

- .1 Use grout as Specified.
- .2 Conform to grout manufacturer's printed recommendations. Force maximum grout into joints for full depth of joints using recommended trowels. Make joints water tight, well tooled and dense. Remove excess grout from surface of tile with soft cleaning and polishing cloths. After grout has attained a slight initial set, clean up and polish surfaces.
- .3 Note various border and field tile have been specified. Patterns have been indicated on the floor plans and elevations. Contact the architect if there is any question as to what tile should be located in a pattern as well as what colour grout should be used.

3.6 CLEANING

- .1 Final cleaning in accordance with Division 1.
- .2 Clean tilework progressively as work proceeds. Do not allow adhesive to stain absorbent tile. Do not use acids for cleaning. Seal in accordance with TTMAC recommendations using TTMAC certified products only.