

PART 1 - GENERAL

- 1.1 References
- .1 ASTM International (ASTM).
 - .1 ASTM E96/E96M-13, Standard Test Methods for Water Vapor Transmission of Materials.
 - .2 Canadian Standards Association (CSA)
 - .1 CSA A82-14, Fired Masonry Brick Made From Clay or Shale.
 - .2 CSA A179-14, Mortar and Grout for Unit Masonry.
 - .3 CAN/CSA A370-14, Connectors for Masonry.
 - .4 CAN/CSA A371-14, Masonry Construction for Buildings.
 - .5 CSA S304-14, Design of Masonry Structures.
- 1.2 Quality Assurance
- .1 Masonry design: to CSA S304-M.
 - .2 Masonry construction: to CAN/CSA A371.
 - .3 National Building Code of Canada 2015.
 - .4 Local ordinances and bylaws.
 - .5 Where the provision of Codes and Standards conflict with the requirements of this specification, the more stringent requirements shall govern.
 - .6 Perform work using qualified masons under direction of an experienced foreman.
- 1.3 Delivery, Storage and Handling
- .1 Deliver materials to job site in dry condition.
 - .2 Keep materials dry until use.
 - .3 Store under waterproof cover on pallets or plank platforms held off ground by means of plank or timber skids.
- 1.4 Cold Weather Protection
- .1 Cold weather protection shall conform to CAN/CSA A371.

- .2 Provide and maintain cold weather protection requirements for enclosure and heating of walls.
- .3 Provide sufficient heat and enclosure for storage and mixing of mortar materials to maintain specified temperatures.
- 1.5 Hot Weather Requirements
 - .1 Protect freshly laid masonry from drying too rapidly by means of waterproof, nonstaining coverings.
- 1.6 Protection
 - .1 Keep masonry dry using waterproof, nonstaining coverings that extend over walls and down sides sufficient to protect walls from wind-driven rain, until masonry work is completed and protected by flashings or other permanent construction.
 - .2 Protect masonry and other work from marking and other damage. Protect windows and other completed work from mortar droppings. Use nonstaining coverings.
 - .3 Provide temporary bracing of masonry work during and after erection until permanent lateral support is in place.

PART 2 - PRODUCTS

- 2.1 Mortar and Grout
 - .1 Mortar and grout: CSA A179.
 - .1 Mortar: based on Proportion specifications.
 - .1 Veneer: Type N.
 - .2 Colour match mortar to match existing weathered mortar.
 - .3 Grout: fine grout, to CSA A179, Table 5.
 - .2 Use same brands of materials and source of aggregates for entire project.
- 2.2 Masonry Accessories
 - .1 Weep holes:
 - .1 Cellular plastic: honeycomb design, modular sizing; colour as selected by Departmental Representative.

- Connectors: to CAN/CSA A370 and CSA S304.1.
- 2.3 Reinforcement .1
- .1 Ties: adjustable type, 1.5 mm thick plate complete with fastener to suit backup and 4.76 mm Ø wire tie.
- Corrosion protection: to CSA S304.1, galvanized in accordance with CSA S304.1 and CAN/CSA A370.
- .2
- Face brick: Burned clay brick to
- 2.4 Masonry Units .1
- CAN/CSA A82.1.
- .1 Appearance classification: Type X
- .2 Durability classification: Grade - EG (exterior grade).
- .3 Size: modular, to match existing.
- .4 Colour and texture: to match existing.
- PART 3 - EXECUTION
- 3.1 Preparation .1
- Accurately lay out work. Prepare items to build-in as the work proceeds, either supplied and installed by Others or installed under this section.
- .2 Coordinate work of this section with Others, such as electrical trades, miscellaneous metal suppliers, etc.
- 3.2 Mortar and Grout Work .1
- Mortar mixing:
- .1 Thoroughly mix mortar using paddle type mixer in good condition.
- .2 Thoroughly dry-mix sand and cement before adding water. Mix minimum four minutes after all ingredients are added.

- .3 Use mortar within 2 hours of mixing at temperatures over 25°C, within 3 hours under 25°C.
 - .4 Retempering is permitted within 2 hours of mixing to replace water lost by evaporation.
- 3.3 Reinforcement .1 Install ties in brick at 300 mm o.c. vertically and 600 mm o.c. horizontally.
- 3.4 Accessory Installation .1 Install weep hole units in head joints in the first course immediately above all flashing. Space at 600 mm o.c. Keep free of mortar droppings.
- 3.5 Laying BRICK .1 Bond: to match existing.
- .2 Coursing height: to match existing.
- .3 Jointing: concave.
- 3.6 Cutting and Fitting .1 Do cutting, fitting, drilling, patching and making good for other trades in masonry work.
- 3.7 CLEANING .1 Perform cleaning as soon as possible after installation to remove construction and accumulated environmental dirt.
- .2 Clean brick: Protect windows, sills, doors, trim and other work, and clean brick masonry as follows.
- .1 Remove large particles with wood paddles without damaging surface. Saturate masonry with clean water and flush off loose mortar and dirt.
 - .2 Scrub with solution of 25 mL trisodium phosphate and 25 mL household detergent dissolved in 1 L of clean water using stiff fibre brushes, then clean off immediately with clean water using hose. Alternatively, use proprietary compound recommended by brick masonry manufacturer in accordance with manufacturer's directions.
 - .3 Repeat cleaning process as often as necessary to remove mortar and other stains.
 - .4 Use acid solution treatment for difficult to clean masonry as

BIO Ellis Building
Roof Repair
Job No. R.086538.001

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2020-July-15

described in Technical Note No.20
by the Brick Industry Association.

END OF SECTION
