

## PART 1 - GENERAL

### 1.1 RELATED REQUIREMENTS

- .1 Section 03 30 00, 3 35 00.

### 1.2 REFERENCES

- .1 ASTM International Inc.
  - .1 ASTM E 336-07, Standard Test Method for Measurement of Airborne Sound Attenuation Between Rooms in Buildings.
- .2 Canadian Standards Association (CSA International)
  - .1 CAN/CSA-A165 Series-2004, CSA Standards on Concrete Masonry Units covers: A165.1, A165.2, A165.3.
  - .2 CAN/CSA A371-04, Masonry Construction for Buildings.
  - .3 CSA S304.1-04, Design of Masonry Structures.
- .3 Underwriters' Laboratories of Canada (ULC)
  - .1 CAN/ULC-S101-07, Standard Methods of Fire Endurance Tests of Building Construction and Materials.

### 1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01330 - Submittal Procedures.
- .2 Product Data:
  - .1 Product Data: provide product data, including manufacturer's printed data sheets and catalog pages illustrating products to be incorporated into project for specified products.
- .3 Samples:
  - .1 Provide unit samples in accordance with Section 04051 – Masonry Procedures.
- .4 Manufacturer's Written Instructions: provide in accordance with Section 04051 – Masonry Procedures.

### 1.4 QUALITY ASSURANCE SUBMITTALS

- .1 Certificates: provide in accordance with Section 04051 – Masonry Procedures.
- .2 Test and Evaluation Reports: provide certified test reports in accordance with Section 04051 – Masonry Procedures.
- .3 Pre-Installation Meetings: conduct pre-installation meeting in accordance with Section 04051 – Masonry Procedures to verify project requirements, manufacturer's installation instructions and

manufacturer's warranty requirements.

1.5 DELIVERY,  
STORAGE, AND  
HANDLING

- .1 Deliver, store and handle concrete unit masonry in accordance with Section 04051 – Masonry Procedures.
- .2 Packaging Waste Management: Separate and recycle waste materials in accordance with Section 01355 - Waste Management and Disposal.

PART 2 - PRODUCTS

2.6 MATERIALS

- .1 Standard concrete block units to CAN/CSA-A165 Series (CAN/CSA-A165.1) .
  - .1 Classification: Hollow
  - .2 Dimensions - Nominal: 150mm wide x 200 mm high x 400 mm long.
  - .3 Special shapes: provide square, bull-nosed, and/or double bull-nosed units for exposed corners. Provide purpose-made shapes for lintels, beams and bond beams. Provide additional special shapes as indicated.

2.7 REINFORCEMENT

- .1 Reinforcement in accordance with Section 04080 Masonry Reinforcement and Connectors.

2.8 CONNECTORS

- .1 Connectors in accordance with Section 04080 Masonry Reinforcement and Connectors.

2.9 MORTAR MIXES

- .1 Mortar and mortar mixes in accordance with Section 04060 - Mortar and Masonry Grout.

2.10 GROUT MIXES

- .1 Grout and grout mixes in accordance with Section 04060 - Mortar and Masonry Grout.

2.11 CLEANING  
COMPOUNDS

- .1 Use low VOC products.
- .2 Compatible with substrate and acceptable to masonry manufacturer for use on products.
- .3 Cleaning compounds compatible with concrete unit masonry and in accordance with manufacturer's written recommendations and instructions.

2.12 TOLERANCES

- .1 Tolerances for standard concrete unit masonry tolerances in

accordance with CAN/CSA A165.1, supplemented as follows:

- .1 Maximum variation between units within specific job lot not to exceed 2 mm.
  - .2 No parallel edge length, width or height dimension for individual unit to differ by more than 2 mm.
  - .3 Out of square tolerance not to exceed 2 mm.
- .2 Tolerances for architectural concrete masonry units in accordance with CAN/CSA A165.1, supplemented as follows:
- .1 Maximum variation in length or height between units within specific job lot for specified dimension not to exceed 2 mm.
  - .2 No parallel edge length, width or height dimension for individual unit to differ by more than 2 mm.
  - .3 Out of square tolerance not to exceed 2 mm.
  - .4 Maximum variation in width between units within specific job lot for specified dimension not to exceed 2 mm.

### PART 3 - EXECUTION

- 3.13 EXAMINATION
- .1 Verify surfaces and conditions are ready to accept work of this Section.
  - .2 Commencing installation means acceptance of existing substrates.

- 3.14 PREPARATION
- .1 Protect adjacent finished materials from damage due to masonry work.

- 3.15 INSTALLATION
- .1 Concrete block units:
    - .1 Bond: running or stack.
    - .2 Coursing height: 200 mm for one block and one joint.
    - .3 Jointing: concave where exposed or where paint or other finish coating is specified.

- 3.16 REINFORCEMENT
- .1 Install reinforcing in accordance with Section 04080 Masonry Reinforcement and Connectors.

- 3.17 CONNECTORS
- .1 Install connectors in accordance with Section 04080 Masonry Reinforcement and Connectors.

- 3.18 FLASHING
- .1 Install flashings: in accordance with Section 04090 Masonry Accessories.

- 3.19 MORTAR
- .1 Place mortar in accordance with Section 04060 - Mortar and

PLACEMENT

Masonry Grout.

3.20 GROUT  
PLACEMENT

- .1 Place grout in accordance with Section 04060 - Mortar and Masonry Grout.

3.21 CONSTRUCTION

- .1 Cull out masonry units, in accordance with CAN/CSA A165 and approved range of colour samples, with chips, cracks, broken corners, excessive colour and texture variation.
- .2 Build in miscellaneous items such as bearing plates, steel angles, bolts, anchors, inserts, sleeves and conduits.
- .3 Construct masonry walls using running bond unless otherwise noted.
- .4 Build around frames previously set and braced. Fill behind hollow frames within masonry walls with mortar or grout and embed anchors.
- .5 Fit masonry closely against electrical and plumbing outlets so collars, plates and covers overlap and conceal cuts.
- .6 Install movement joints and keep free of mortar where indicated.
- .7 Hollow Units: spread mortar setting bed from outside edge of face shells. Gauge amount of mortar on top and end of unit to create full joints, equivalent to shell thickness. Avoid excess mortar.
- .8 Solid Units: apply mortar over entire vertical and horizontal surfaces. Avoid bridging of airspace between brick veneer and backup wall with mortar.
- .9 Ensure compacted head joints. Use full or face-shell joint as indicated.
- .10 Tamp units firmly into place.
- .11 Do not adjust masonry units after mortar has set. Where resetting of masonry is required, remove, clean and reset units in new mortar.
- .12 Tool exposed joints concave weathered/raked for interior work; strike concealed joints flush.

.13 After mortar has achieved initial set up, tool joints.

.14 Do not interrupt bond below or above openings.

3.22

REPAIR/RESTORATION

.1 Upon completion of masonry, fill holes and cracks, remove loose mortar and repair defective work.

3.23 FIELD QUALITY CONTROL

.1 Site Tests, Inspection: in accordance with Section 04051 – Masonry Procedures supplemented as follows:

.1 Concrete masonry units will be sampled and tested by independent testing agency appointed and paid by Departmental Representative in accordance with CSA S304.1.

.2 Manufacturer's Field Services: in accordance with Section 04051 – Masonry Procedures.

3.24

CLEANING

.1 Clean in accordance with Section 01740 - Cleaning], supplemented as follows.

.1 Progress Cleaning:

.1 Allow mortar droppings on masonry to partially dry then remove by means of trowel, followed by rubbing lightly with small piece of block. Clean wall surface with suitable brush or burlap.

3.25 PROTECTION

.1 Brace and protect concrete unit masonry in accordance with Section 04051 – Masonry Procedures.