

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Section 04 05 00 - Common Work Results for Masonry.
- .3 Section 04 05 12 - Mortar and Masonry Grout.
- .4 Section 04 05 19 - Masonry Anchorage and Reinforcing.
- .5 Section 04 05 23 – Masonry Accessories.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CAN3 A165 Series-04(R2009), CSA Standards on Concrete Masonry Units covers: A165.1, A165.2, A165.3.

1.3 SUBMITTALS

- .1 Product Data
 - .1 Submit manufacturer's printed product literature, specifications and data sheet illustrating products to be incorporated into project for specified products.

1.4 QUALITY ASSURANCE

- .1 Mock-up
 - .1 Construct mock-up on accordance with Section 01 45 00 – Testing and Quality Control.
 - .2 Construct mock-up 10 m² minimum of brick unit masonry in area designated by Departmental Representative before proceeding with brick unit masonry work.
 - .3 Allow 24 hours for inspection of mock-up by Departmental Representative before proceeding with Concrete Unit Masonry Work.
 - .2 Test reports: certified test reports showing compliance with specified performance characteristics and physical properties.
 - .3 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
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- .4 Pre-installation meeting: conduct pre-installation meeting to verify project requirements manufacturer's instructions and manufacturer's warranty requirements.

1.5 QUALIFICATIONS

- .1 Manufacturer: company specializing in manufacturing products of this section with minimum 10 years experience.
- .2 Installer: company specializing in performing work of this section approved by manufacturer. Minimum 5 years experience.
- .3 Design structural installations under direct supervision of Professional Engineer experience in structural design of concrete masonry installation and registered in the Province of Newfoundland and Labrador.

1.6 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 35 43 - Environmental Procedures.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene and corrugated cardboard packaging material in appropriate on-site for recycling in accordance with Waste Management Plan.
- .4 Divert damaged or unused concrete materials from landfill to local facility approved by Departmental Representative.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Standard concrete block units: to CAN3-A165 Series (CAN3-A165.1).
 - .1 Classification: H/15/A/M.
 - .2 Size: modular, as indicated on the drawings.
 - .3 Special shapes: provide square units for exposed corners. Provide purpose-made shapes for lintels and bond beams. Provide additional special shapes as indicated.
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2.2 ACCESSORIES

- .1 Reinforcement: to Section 04 05 19 – Masonry Anchorage and Reinforcing.
- .2 Connectors: to Section 04 05 19 – Masonry Anchorage and Reinforcing.
- .3 Flashing: to Section 04 05 23 – Masonry Accessories.
- .4 Mortar and mortar mixes: to Section 04 05 12 – Masonry Mortar and Grout.
- .5 Grout and grout mixes: to Section 04 05 12 – Masonry Mortar and Grout.

2.3 CLEANING COMPOUNDS

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

2.4 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 2.0 mm.
 - .2 No parallel edge length, width or height dimension for individual unit to differ by more than 2.0 mm.
 - .3 Out of square tolerance not to exceed 2.0 mm.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Concrete block units.
 - .1 Bond: running.
 - .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.
 - .2 Concrete block lintels.
 - .1 Install reinforced concrete block lintels over openings in masonry where steel or reinforced concrete lintels are not indicated.
 - .2 End bearing: not less than 200 mm.
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3.2 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 Fit masonry closely against electrical and plumbing outlets so collars, plates and covers overlap and conceal cuts.
- .5 Install movement joints and keep free of mortar where indicated.
- .6 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.
- .7 Solid Units: apply mortar over entire vertical and horizontal surfaces. Avoid bridging to airspace between brick veneer and backup wall with mortar.
- .8 Ensure compacted head joints. Use full or face-shell joint as indicated.
- .9 Tamp units firmly into place.
- .10 Do not adjust masonry units after mortar has set. Where resetting of masonry is required, remove, clean and reset units in new mortar.
- .11 Tool exposed joints concave; strike concealed joints flush.
- .12 After mortar has achieved initial set up, tool joints.
- .13 Do not interrupt bond below or above openings.

3.3 CLEANING

- .1 Standard block: Allow mortar droppings on masonry to partially dry then remove by means of trowel, followed by rubbing lightly with small piece of block and finally by brushing.
 - .2 Upon completion of installation remove surplus materials, rubbish, tools and equipment.
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3.4 PROTECTION

- .1 Brace and protect concrete unit masonry in accordance with Section 04 05 00 – Common Work Results For Masonry.