

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 01 74 19 – Construction/Demolition Waste Management And Disposal
- .2 Section 04 05 10 – Common Work Results for Masonry
- .3 Section 03 05 10 – Cast-in-Place Short Form
- .4 Section 04 05 12 – Mortar and Masonry Grout
- .5 Section 04 05 19 – Masonry Anchorage and Reinforcing
- .6 Section 04 05 23 – Masonry Accessories
- .7 Section 04 22 00 – Concrete Unit Masonry

1.2 REFERENCES

- .1 Canadian Standards Association (CSA International):
 - .1 CSA-A370-04(R2009) – Connectors for Masonry.
 - .2 CSA-A371-04(R2009) – Masonry Construction for Buildings.
 - .3 CSA-S304.1-04(R2009) – Masonry Design for Buildings.

1.3 SUBMITTALS

- .1 Product Data, Manufacturer's Instructions and Shop Drawings: Refer to Section 04 05 10.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Refer to Section 04 05 10.

Part 2 Products

2.1 MATERIALS

- .1 Bar reinforcing: to requirements specified in Section 03 05 10 for concrete reinforcing.
- .2 Single wythe concrete block wall joint reinforcing: to CSA-A371; continuous ladder or truss type fabricated from galvanized steel wire; standard weight with minimum 3.65 mm diameter side rods; of width to suit wall thicknesses, with wire set back 25 mm from concrete block faces.

- .3 Masonry veneer anchors: adjustable system consisting of a vertically oriented steel L-plate, a V-shaped wire, and an insulation support; component description as follows:
 - .1 Steel L-plate: 1.6 mm (16 gauge) thick x 50 mm wide x length to suit cavity space; 25 mm L return; hot dip galvanized to CAN/CSA A370 with 401 g/m³ coating per side; with holes to accommodate the adjustment of the V-shaped wire and to minimize thermal conductivity.
 - .2 Steel V-wire: 4.76 mm diameter; hot dip galvanized to CAN/CSA A370 with 458 g/m³ coating; length to suit cavity space size.
 - .3 Insulation support: rigid polyethylene construction; rectangular shape with 104 mm x 86 mm diagonal dimensions and 50 mm long slots to accommodate steel L-plate.
- .4 Fasteners: epoxy or zinc coated steel type acceptable to Departmental Representative; minimum 4.76 mm diameter shaft; self-drilling and self-tapping; to penetrate back-up by minimum 25 mm.
- .5 Concrete fill for reinforced concrete block, including bond beams and lintels: minimum 30 MPa strength and of type specified in Section 03 05 10 for cast-in-place concrete work; maximum 13 mm course aggregate size.

2.2 BAR REINFORCING FABRICATION

- .1 Fabricate in accordance with requirements specified in Section 03 05 10.
- .2 Obtain Departmental Representative's approval for locations of splices other than shown on placing drawings.
- .3 Ship reinforcing clearly identified in accordance with drawings.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 GENERAL

- .1 Supply and install masonry connectors and reinforcing in accordance with CAN/CSA-A370, CSA-A371, CAN/CSA-A23.1 and CSA-S304.1, as applicable.
- .2 Install proprietary anchors in accordance with manufacturer's instructions.
- .3 Prior to placing concrete, mortar and grout, obtain Departmental Representative's approval of placement of reinforcing and connectors.

3.3 REINFORCING

- .1 Reinforce standard concrete block walls with joint reinforcing every second block course.
- .2 Reinforce standard concrete block walls with bar reinforcing as indicated and as follows:
 - .1 Do not use masonry mortar or grout for concrete fill.
 - .2 Install temporary supports over door and window opening prior to placing. Allow concrete fill to reach 7 days strength before removing temporary supports.
 - .3 Allow 20 mm concrete cover for reinforcing steel. Use wire spacers or wire loops built into masonry joints to space and secure steel rigidly in position.
 - .4 Place reinforcement for concrete block cores in maximum 1800 mm lifts. Place concrete in vertical masonry cores in maximum 1500 mm lifts.
 - .5 Lap reinforcing splices minimum 400 mm, unless otherwise detailed.
 - .6 Place and consolidate concrete without disturbing reinforcing.

3.4 ANCHORING

- .1 In exterior cavity walls, anchor masonry veneer to block wall back-up using masonry veneer anchors. Install anchors at frequency recommended by anchor manufacturer and to meet requirements of CAN/CSA A370.
- .2 Use care when installing anchors and ties so as not to damage air seal membrane

3.5 GROUTING

- .1 Grout exterior steel door frames solid with mortar.

3.6 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION