

**Part 1            General**

**1.1                RELATED SECTIONS**

- .1      Section 01 29 83 - Payment Procedures: Testing Laboratory Services
- .2      Section 01 33 00 - Submittal Procedures
- .3      Section 01 74 19 - Construction/Demolition Waste Management And Disposal
- .4      Section 01 45 00 - Quality Control
- .5      Section 01 61 00 - Common Product Requirements
- .6      Section 03 05 10 - Cast-in-Place Short Form
- .7      Section 04 05 12 - Mortar and Masonry Grout
- .8      Section 04 05 19 - Masonry Anchorage and Reinforcing
- .9      Section 04 05 23 - Masonry Accessories
- .10     Section 04 22 00 - Concrete Unit Masonry
- .11     Section 05 50 00 - Metal Fabrications
- .12     Section 07 27 11 - Air Barrier
- .13     Section 07 21 13 - Board Insulation
- .14     Section 07 92 10 - Joint Sealing

**1.2                REFERENCES**

- .1      Canadian Standards Association (CSA):
  - .1      CSA-A165 Series-04(R2009) – Standards on Concrete Masonry Units.
  - .2      CSA A179-04(R2009) – Mortar and Grout for Unit Masonry.
  - .3      CSA-A371-04(R2009) – Masonry Construction for Buildings.

**1.3                SUBMITTALS**

- .1      Product Data.
  - .1      Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00.
- .2      Manufacturer's Instructions.
  - .1      Submit manufacturer's installation instructions in accordance with Section 01 33 00.

#### **1.4 DELIVERY, STORAGE, AND HANDLING**

- .1 Deliver, store, handle and protect materials in accordance with Section 01 61 00.
- .2 Deliver materials to job site in dry condition.
- .3 Storage and Protection.
  - .1 Keep materials dry until use.
  - .2 Store under waterproof cover on pallets or plank platforms held off ground by means of plank or timber skids.

#### **1.5 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 74 19.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, and other packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Unused metal materials are to be diverted from landfill to a metal recycling facility.
- .5 Unused or damaged masonry materials must be diverted from landfill to a local recycling facility.

#### **1.6 SITE CONDITIONS**

- .1 Site Environmental Requirements.
  - .1 Cold weather requirements.
    - .1 Supplement Clause 5.15.2 of CSA-A371 with following requirements.
      - .1 Maintain temperature of mortar between 5 degrees C and 50 degrees C until batch is used or becomes stable.
      - .2 Maintain ambient temperature between 5 degrees C and 50 degrees C and protect site from windchill.
    - .2 Hot weather requirements.
      - .1 Protect freshly laid masonry from drying too rapidly, by means of waterproof, non-staining coverings.
      - .2 Keep masonry dry using waterproof, non-staining 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.

**Part 2 Products**

**2.1 MATERIALS**

- .1 Masonry materials are specified in Related Sections.

**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 PREPARATION**

- .1 Provide temporary bracing of masonry work during and after erection until permanent lateral support is in place.

**3.3 INSTALLATION**

- .1 Do masonry work in accordance with CSA-A371 except where specified otherwise.
- .2 Build masonry plumb, level, and true to line, with vertical joints in alignment.
- .3 Layout coursing and bond to achieve correct coursing heights, and continuity of bond above and below openings, with minimum of cutting.

**3.4 CONSTRUCTION**

- .1 Exposed masonry.
  - .1 Remove chipped, cracked, and otherwise damaged units, in accordance with CSA A-165, Clause 82.1, and replace with undamaged units.
- .2 Jointing.
  - .1 Allow joints to set just enough to remove excess water, then tool with round jointer to provide smooth, joints true to line, compressed, uniformly expressed.
    - .1 Tool mortar joints for split faced units to a WEATHERED appearance, to match existing mortar joints.
    - .2 Strike flush joints concealed in walls, and joints in walls to receive gypsum board.
- .3 Cutting.
  - .1 Cut out for electrical switches, outlet boxes, and other recessed or built-in objects.
  - .2 Make cuts straight, clean, and free from uneven edges.
- .4 Building-In.
  - .1 Build in items required to be built into masonry.

- .2 Prevent displacement of built-in items during construction. Check plumb, location and alignment frequently, as work progresses.
- .3 Brace door jambs to maintain plumb. Fill spaces between jambs and masonry with mortar.
- .5 Support of loads.
  - .1 Use 30 MPa concrete to Section 03 05 10 where concrete fill is shown to be installed.
  - .2 Use grout to CSA A179 where grout is used in lieu of solid units.
- .6 Control joints.
  - .1 Construct continuous control joints where new exterior split faced units meet existing split faced units, locations shown.
- .7 Interface with other work.
  - .1 Cut openings in existing work as indicated.
  - .2 Openings in walls: approved by Departmental Representative.
  - .3 Make good existing work. Use materials to match existing.

### **3.5 SITE TOLERANCES**

- .1 Tolerances in notes to Clause 5.3 of CSA-A371 apply.

### **3.6 FIELD QUALITY CONTROL**

- .1 Inspection and testing will be carried out by Testing Laboratory designated by Departmental Representative.

### **3.7 CLEANING**

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

### **3.8 PROTECTION**

- .1 Protect masonry and other work from marking and other damage. Protect completed work from mortar droppings. Use non-staining coverings.

**END OF SECTION**