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| Version | Date | Description of Revisions |
| 1 | August 30, 2006 | Approved final document. |
| 2 | November 19, 2007 | Minor revisions by Legal Services. |
| 3 | November 13, 2009 | Modified ‘Related Section’ |
| 4 | March 15, 2011 | Minor changes from Legal |
| 5 | June 5, 2012 | Added References and Replacement Parts Section |
| 6 | July 3, 2012 | Reformatted to Remove White Space |
| 7 | April 22, 2015 | General formatting |
| 8 | August 24, 2015 | First draft review Phase 1 (AV) |
| **9** | **October 19, 2015** | **Updated, Finalized Specification – Legal Reference eDOCS #6263200 v3 (AV)** |

# GENERAL

## Related Sections

### Section 01060 – Regulatory Requirements

### Section 01300 – Submittals

### Section 03300 – Cast In Place Concrete

## References

### Comply with the latest edition of the following statutes, codes, standards, and all amendments thereto:

#### CSA A165 Series-14, Standards on Concrete Masonry Units.

#### CSA A179-14, Mortar and Grout for Unit Masonry.

#### CAN3 A371-14, Masonry Construction for Buildings.

## Measurement and Payment

### The work of this Section will not be measured separately for payment. All costs associated with the work of this Section shall be included in the Contract Price.

## Submittals

### Product Data:

#### Submit the manufacturers’ printed Product literature, specifications and data sheets in accordance with Section 01300 – Submittals.

### Manufacturer's Instructions.

#### Submit the manufacturer's installation instructions.

## Quality Assurance

### Test Reports:

#### Certified test reports showing compliance with the specified performance characteristics and physical properties.

#### Submit laboratory test reports.

#### Submit laboratory test reports certifying compliance of masonry units and mortar ingredients with the specification requirements.

### Certificates: Product certificates signed by the manufacturer certifying that the materials comply with the specified performance characteristics and criteria and the physical requirements.

### Mockups.

#### Construct a mockup of exterior masonry wall construction, 1,200 mm x 1,800 mm, showing masonry colours and textures, use of reinforcement, ties, through wall flashing, weep holes, jointing, coursing, mortar and workmanship.

#### The mockup will be used:

##### To judge workmanship, substrate preparation, operation of equipment and material application.

##### For testing to determine compliance with performance requirements. The Contractor shall perform the necessary tests.

#### Construct the mock up where directed by the Consultant.

#### Allow 24 hours for inspection of the mock up by the Consultant before proceeding with the Work.

#### When accepted by the Consultant, the mock up will demonstrate the minimum standard for this Work. The mock up may at the discretion of the Consultant, remain as part of the finished Work.

### Pre-Installation Meetings: conduct pre-installation meetings to verify the Contract Work requirements, manufacturer's installation instructions and manufacturer's warranty requirements.

## Delivery, Storage and Handling

### Deliver materials to the Site in a dry condition.

### Storage and Protection:

#### Keep materials dry until their use except where the wetting of bricks is specified in the Contract Documents.

#### Store materials under a waterproof cover on pallets or plank platforms held off the ground by means of planks or timber skids.

## Environmental Requirements

### Cold weather requirements:

#### Supplement Clause 5.15.2 of CAN3 A371-14 with the following requirements:

##### Maintain the temperature of mortar between 5 degrees Celsius and 50 degrees Celsius until the batch is used.

##### Maintain ambient temperature between 5 degrees Celsius and 50 degree Celsius and protect the Site from wind-chill.

### Hot weather requirements:

#### Protect freshly laid masonry from drying too rapidly, by means of waterproof, non-staining coverings.

#### Keep masonry dry using waterproof, non-staining coverings that extend over walls and down the sides a sufficient length to protect walls from wind driven rain, until masonry work is completed and protected by flashings or other permanent construction.

# PRODUCTS

## Materials

#### Masonry materials are specified in *Division 04*.

# EXECUTION

## Manufacturer’s Instructions

#### Compliance: Comply with the manufacturer's written data, including Product technical bulletins, Product catalogue installation instructions, Product carton installation instructions, and data sheets.

## Preparation

#### Provide temporary bracing of masonry Work during and after erection until permanent lateral support is in place.

#### Bracing is to be approved by the Consultant.

## Installation

#### Complete masonry work in accordance with CAN3 A371-14 except where specified otherwise in the Contract Documents.

#### Build masonry plumb, level, and true to line, with vertical joints in alignment.

#### Layout coursing and bond to achieve the correct coursing heights, and continuity of the bond above and below openings, with the minimum amount of cutting.

## Construction

### Exposed masonry:

#### Remove chipped, cracked, and otherwise damaged units in exposed masonry and replace with undamaged units.

### Jointing

#### Allow joints to set just enough to remove excess water, then tool with a round jointer to provide smooth joints true to line, compressed, and provide uniformly concave joints where concave joints are indicated in the Contract Documents.

#### Strike flush any joints concealed in walls and joints in walls which are to receive plaster, tile, insulation, or other applied material except paint, or a similar thin finish coating.

### Cutting:

#### Cut out for electrical switches, outlet boxes, and other recessed or built in objects.

#### Make cuts straight, clean, and free from uneven edges.

### Building In:

#### Build in items required to be built into the masonry.

#### Prevent displacement of built in items during construction. Check plumb, location and alignment frequently, as the Work progresses.

#### Brace door jambs to maintain plumb. Fill spaces between jambs and masonry with mortar.

### Wetting of bricks:

#### Except in cold weather, wet bricks having an initial rate of absorption exceeding 1 g/minute/1,000 mm2: to a uniform degree of saturation, 3 to 24 hours before laying, and do not lay until the surface is dry.

#### Wet the tops of walls built of bricks qualifying for wetting, when recommencing Work on such walls.

### Support of loads:

#### Use 30MPa concrete in accordance with Section 03300 - Cast in Place Concrete, where concrete fill is used in lieu of solid units.

#### Use grout in accordance with CSA A179-14 where grout is used in lieu of solid units.

#### Install building paper below voids to be filled with concrete grout; keep the paper 25 mm back from the faces of the units.

### Provision for movement:

#### Leave 3 mm of space below shelf angles.

#### Leave 6 mm of space between the tops of non-load bearing walls and partitions and structural elements. Do not use wedges.

#### Build masonry to tie in with stabilizers, with provision for vertical movement.

### Loose steel lintels:

#### Install loose steel lintels. Centre over the opening width.

### Control joints:

#### Construct continuous control joints as indicated in the Contract Documents.

### Expansion joints:

#### Build in continuous expansion joints as indicated in the Contract Documents.

## Site Tolerances

### The tolerances in the notes to Clause 5.3 of CAN3 A371-14 shall apply.

## Field Quality Control

### Inspection and testing will be carried out by a Testing Laboratory designated by the Consultant.

## Cleaning

### Perform cleaning after installation to remove construction and accumulated environmental dirt.

### Upon completion of installation, remove any surplus materials, rubbish, tools and equipment barriers.

## Protection

### Protect masonry and other items of Work from marking and other damage. Protect completed items of Work from mortar droppings. Use non-staining coverings.

**END OF SECTION**