
MASONRY PROCEDURES

PART 1 GENERAL**1.1 Related Sections**

- .1 Section [04060](#) Mortar and Masonry Grout
- .2 Section [05500](#) Metal Fabrications

1.2 References**1.3 Delivery, Storage and Handling**

- .1 Deliver, store, handle and protect materials in accordance with General Requirements.
- .2 Deliver materials to job site in dry condition.
- .3 Keep materials dry until use, except where wetting of bricks is specified.
- .4 Store under waterproof cover on pallets or plank platforms held off ground by means of plank or timber skids.

1.4 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°C and 50°C until batch is used.
 - .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.
 - .3 Protect masonry and other work from marking and other damage. Protect completed work from mortar droppings. Use non-staining coverings.
 - .4 Provide temporary bracing of masonry work during and after erection until permanent lateral support is in place.

PART 2 PRODUCTS**2.1 Materials**

- .1 Masonry materials are specified in related Sections indicated in 1.1.

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PART 3 EXECUTION**3.1 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.

3.2 Construction

- .1 Exposed masonry
 - .1 Remove chipped, cracked, and otherwise damaged units in exposed masonry and replace with undamaged units.
- .2 Jointing
 - .1 For concave joints, allow joints to set just enough to remove excess water, then tool with round jointer to provide smooth, joints true to line, compressed, uniformly concave joints where concave joints are indicated.
 - .2 For raked joints, allow joints to set just enough to remove excess water, then rake joints uniformly to 6 mm depth and compress with square tool to provide smooth, compressed, raked joints of uniform depth where raked joints are indicated.
 - .3 For flush joints, strike flush all joints concealed in walls and joints in walls to receive plaster, tile, insulation, or other applied material except paint or similar thin finish coating.
- .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 Wetting of bricks
 - .1 Except in cold weather, wet bricks having an initial rate of absorption exceeding 1 g/minute/1000 mm²: wet to uniform degree

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- of saturation, 3 to 24 hours before laying, and do not lay until surface dry.
- .2 Wet tops of walls built of bricks qualifying for wetting, when recommencing work on such walls.
- .6 Support of loads
- .1 Use 32 MPa concrete to Section [03300](#) - **Cast-in-Place Concrete**, where concrete fill is used in lieu of solid units.
 - .2 Use grout to CSA A179 where grout is used in lieu of solid units.
 - .3 Install building paper below voids to be filled with grout; keep paper 25 mm back from faces of units.
- .7 Provision for movement
- .1 Leave 3 mm space below shelf angles.
 - .2 Leave 6 mm space between top of non-load bearing walls and partitions and structural elements. Do not use wedges.
 - .3 Built masonry to tie in with stabilizers, with provision for vertical movement.
- .8 Loose steel lintels
- .1 Install loose steel lintels. Centre over opening width.
- .9 Control joints
- .1 Construct continuous control joints as indicated.
- .10 Expansion joints
- .1 Build-in continuous expansion joints as indicated.

3.3 Site Tolerances

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

3.4 Re-installation

- .1 Cut openings in existing work as indicated.
- .2 Openings in walls to be approved by Consultant.
- .3 Make good existing work. Use materials to match existing.

3.5 Field Quality Control

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

END OF SECTION - 04051