

PART 1 - GENERAL

- 1.1 RELATED REQUIREMENTS**
- .1 Section 04 05 19 Masonry Anchorage and Reinforcing
 - .2 Section 04 05 23 Masonry Accessories
 - .3 Section 04 22 00 Concrete Unit Masonry
- 1.2 REFERENCES**
- .1 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-A23.1/A23.2-Latest Edition, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
 - .2 CAN/CSA A179-Latest Edition, Mortar and Grout for Unit Masonry.
 - .3 CAN/CSA A371-Latest Edition, Masonry Construction for Buildings.
 - .4 CAN/CSA-A3000-Latest Edition, Cementitious Materials Compendium; CAN/CSA-A3002-Latest Edition, Masonry and Mortar Cement.
- 1.3 ACTION AND INFORMATIONAL SUBMITTALS**
- .1 Product Data:
 - .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Provide manufacturer's printed product literature, specifications and datasheets. Include product characteristics, performance criteria, and limitations.
 - .3 Provide two copies of Workplace Hazardous Materials Information System (WHMIS) - Material Safety Data Sheets (MSDS). Indicate VOC's mortar, grout, parging, colour additives and admixtures. Expressed as grams per litre (g/L).
 - .2 Samples:
 - .1 Samples: provide unit samples, supplemented as follows:
 - .1 Provide samples, prior to mixing or preparation of mortars, to Departmental Representative of:
 - .1 Aggregate.
 - .2 Cement.
 - .3 Colour pigment samples
 - .3 Manufacturer's instructions:
 - .1 Provide manufacturer's installation instructions.
- 1.4 QUALITY ASSURANCE**
- .1 Test Reports: certified test reports [including sand gradation tests in accordance with CAN/CSA A179 Latest Edition, showing compliance with specified performance characteristics and physical properties
 - .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
 - .3 Pre-Installation Meetings: conduct pre-installation meeting to verify project requirements, manufacturer's installation instructions and manufacturer's warranty requirements.
 - .4 Mock-ups:
 - .1 Construct mock-ups in accordance with Section 01 45 00 - Quality Control:
 - .1 Construct mock-up sample panel of pointing.

- 1.5 DELIVERY, STORAGE, AND HANDLING
- .1 Deliver, store and handles masonry mortar and grout materials in accordance with Section 01 61 00 - Common Product Requirements, supplemented as follows:
 - .1 Plastic-lined bags each bearing name and address of manufacturer, production codes or batch numbers, and colour or formula numbers.
 - .2 Maintain mortar, grout and packaged materials clean, dry, and protected against dampness, freezing, traffic and contamination by foreign materials.
- 1.6 SITE CONDITIONS
- .1 Ambient Conditions: maintain materials and surrounding air temperature to:
 - .1 Minimum 10 degrees C prior to, during, and 48 hours after completion of masonry work.
 - .2 Maximum 32 degrees C prior to, during, and 48 hours after completion of masonry work.
 - .2 Weather Requirements: CAN/CSA A371

PART 2 - PRODUCTS

- 2.1 MATERIALS
- .1 Use same brands of materials and source of aggregate for entire project.
 - .2 Cement:
 - .1 Portland Cement: to CAN/CSA-A3000, Type GU - General use hydraulic cement Type 10, gray colour.
 - .1 Use low VOC products.
 - .2 Masonry Cement: to CAN/CSA-A3002 and CAN/CSA A179, Type S.
 - .3 Mortar Cement: to CAN/CSA-A3002 and CAN/CSA A179, Type S integral water repellents.
 - .1 Use low VOC products.
 - .4 Packaged Dry Combined Materials for mortar: to CAN/CSA A179, Type S, using gray colour cement.
 - .3 Aggregate: supplied by one supplier.
 - .1 Fine Aggregate: to CAN/CSA A179, [natural sand] [manufactured sand] [silica sand].
 - .2 Course Aggregate: to CAN/CSA A179 Latest Edition.
 - .4 Water: clean and potable.
 - .5 Lime:
 - .1 Quick Lime: to CAN/CSA A179, Type S.
 - .2 Hydrated Lime: to CAN/CSA A179, Type S.
 - .6 Bonding Agent: latex type.
 - .7 Polymer Latex: organic polymer latex admixture of butadiene-styrene type non-emulsifiable bonding admixture.

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- 2.2 COLOUR ADDITIVES
- .1 Use colouring admixture not exceeding 10% of cement content by mass, or integrally Admixtures to be approved prior to use. Use in accordance with the specific coloured masonry cement, to produce coloured mortar to match approved sample. manufacturer's recommendations.
 - .2 Powder: inorganic mineral oxide pigment; colour to match existing.
- 2.3 ADMIXTURES
- .1 Water Repellent Agents: [powdered] [liquid] [polymeric].
 - .1 Use low VOC products
- 2.4 MORTAR MIXES
- .1 Mortar for exterior masonry above grade:
 - .1 Loadbearing: type S based on property specifications.
 - .2 Non-Loadbearing: S based on property specifications.
 - .2 Mortar for interior masonry:
 - .1 Loadbearing: type S based on property specifications.
 - .2 Non-Loadbearing: N based on property specifications.
 - .3 Stain Resistant Pointing Mortar: one part Portland cement, 1/8 part hydrated lime, and two parts graded (80 mesh) aggregate, proportioned by volume. Add aluminum tristearate, calcium stearate, or ammonium stearate to 2 percent of Portland cement by weight.
- 2.5 MORTAR MIXING
- .1 Use pre-blended, pre-coloured mortar prepackaged under controlled factory conditions. Ingredients batching limitations to be within 1% accuracy.
 - .2 Mix mortar ingredients in accordance with CAN/CSA A179 in quantities needed for immediate use.
 - .3 Maintain sand uniformly damp immediately before mixing process.
 - .4 Add mortar colour in accordance with manufacturer's instructions. Provide uniformity of mix and colouration.
 - .5 Do not use anti-freeze compounds including calcium chloride or chloride based compounds.
 - .6 Do not add air entraining admixture to mortar mix.
 - .7 Use a batch type mixer in accordance with CAN/CSA A179.
 - .8 Pointing mortar: prehydrate pointing mortar by mixing ingredients dry, then mix again adding just enough water to produce damp unworkable mix that will retain its form when pressed into ball. Allow to stand for not less than 1 hour no more than 2 hours then remix with sufficient water to produce mortar of proper consistency for pointing.
 - .9 Re-temper mortar only within two hours of mixing, when water is lost by evaporation.
 - .10 Use mortar within 2 hours after mixing at temperatures of 32 degrees C, or 2-1/2 hours at temperatures under 10 degrees C.

2.6 GROUT MIXES .1 Grout: Minimum compressive strength of 12.5 MPa at 28 days. Maximum aggregate size and grout slump: CAN/CSA A179.

2.7 GROUT MIXING .1 Mix batched and delivered grout in accordance with CAN/CSA-A23.1 transit mixed.
.2 Mix grout ingredients in quantities needed for immediate use in accordance with CAN/CSA A179 [fine] [coarse] grout.
.3 Add admixtures in accordance with manufacturer's instructions; mix uniformly.
.4 Do not use calcium chloride or chloride based admixtures.

PART 3 - EXECUTION

3.1 EXAMINATION .1 Request inspection of spaces to be grouted.

3.2 PREPARATION .1 Apply bonding agent to existing concrete surfaces.
.2 Plug clean-out holes with block masonry units. Brace masonry for wet grout pressure.

3.3 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.

3.4 CONSTRUCTION .1 Do masonry mortar and grout work in accordance with CAN/CSA A179 except where specified otherwise.

3.5 MIXING .1 All pointing mortar can be mixed using a regular paddle mixer. Only electric motor mixers are permissible. Mixers run on hydrocarbons are not permitted, due to fumes.
.2 Clean all mixing boards and mechanical mixing machine between batches.
.3 Mortar must be weaker than the units it is binding.
.4 Contractor to appoint one individual to mix mortar, for duration of project. In the event that this individual must be changed, mortar mixing must cease until the new individual is trained, and mortar mix is tested.

3.6 MORTAR
PLACEMENT

- .1 Install mortar to manufacturer's instructions.
- .2 Install mortar to requirements of CAN/CSA A179.
- .3 Remove excess mortar from grout spaces.

3.7 GROUT
PLACEMENT

- .1 Install grout in accordance with manufacturer's instructions.
- .2 Install grout in accordance with CAN/CSA A179.
- .3 Work grout into masonry cores and cavities to eliminate voids.
- .4 Do not install grout in lifts greater than [400] mm, without consolidating grout by rodding.
- .5 Do not displace reinforcement while placing grout.

3.8 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.
- .2 Remove droppings and splashings using clean sponge and water.
- .3 Clean masonry with low pressure clean water and soft natural bristle brush.

3.9 PROTECTION OF
COMPLETED WORK

- .1 Cover completed and partially completed work not enclosed or sheltered with waterproof covering at end of each work day. Anchor securely in position.

PART 1 - GENERAL**1.1 RELATED REQUIREMENTS**

- .1 Section 04 05 12 Masonry Mortar and Grout
- .2 Section 04 05 23 Masonry Accessories
- .3 Section 04 22 00 Concrete Unit Masonry

1.2 REFERENCES

- .1 ASTM International Inc.
 - .1 ASTM A 36/A 36M-Latest Edition, Standard Specification for Carbon Structural Steel.
 - .2 ASTM A 82/A 82M-Latest Edition, Standard Specification for Steel Wire, Plain, for Concrete Reinforcement.
 - .3 ASTM A 167-Latest Edition, Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .4 ASTM A 307-Latest Edition, Standard Specification for Carbon Steel Bolts and Studs, 60000 PSI Tensile Strength.
 - .5 ASTM A 641/A 641M-Latest Edition, Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
- .2 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-A23.1/A23.2-Latest Edition, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
 - .2 CAN/CSA A179-Latest Edition, Mortar and Grout for Unit Masonry.
 - .3 CAN/CSA A370-Latest Edition, Connectors for Masonry.
 - .4 CAN/CSA A371-Latest Edition, Masonry Construction for Buildings.
 - .5 CAN/CSA G30.18-M92Latest Edition, Billet-Steel Bars for Concrete Reinforcement.
 - .6 CSA-S304.1-[04], Design of Masonry Structures.
 - .7 CSA W186-M1990-Latest Edition, Welding of Reinforcing Bars in Reinforced Concrete Construction.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Provide manufacturer's printed product literature, specifications and datasheets illustrating products to be incorporated into project for specified products.
 - .2 Provide two copies of Workplace Hazardous Materials Information System (WHMIS) - Material Safety Data Sheets (MSDS).
- .3 Shop Drawings:
 - .1 Provide shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Provide shop drawings detailing bar bending details.
 - .3 On placing drawings, indicate sizes, spacing, location and quantities of reinforcement and connectors.
- .4 Manufacturer's Instructions:
 - .1 Provide manufacturer's installation instructions.

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- 1.4 FIELD MEASUREMENTS .1 Make field measurements necessary to ensure proper fit of members.
- 1.5 DELIVERY, STORAGE, AND HANDLING .1 Deliver, store and handle masonry anchorage and reinforcing materials in accordance with Section 01 61 00 - Common Product Requirements.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Bar reinforcement: Steel to CAN/CSA A371 and CAN/CSA G30.18.
- .2 Connectors: to CAN/CSA A370 and CSA-S304.1.
- .3 Corrosion protection: to CSA-S304.1, galvanized to CSA-S304.1 and CAN/CSA A370.
- .4 Ties: hot dip galvanized to CAN/CSA A370 Table 5.2 steel finish.
- .1 Corrugated to CAN/CSA A370.
- .2 Adjustable Unit Ties: to CAN/CSA A370: proprietary type ties, type, style and size to suit application in accordance with manufacturer's recommendations.
- .3 Joint Reinforcement Ties: to CAN/CSA A370:
- .1 Single Wythe Joint Reinforcement: truss type:
- .1 Steel wire, hot dip galvanized: to ASTM A 641, Class 3 after fabrication.
- .5 Anchors: to CAN/CSA A370:
- .6 Conventional Bolts:
- .1 Bolts: to ASTM A 36, bar stock.
- .2 Plate anchors: steel to ASTM A 36, weld square of circular steel plate perpendicular to axis of steel bar threaded on opposite end.
- .3 Through bolt rods: to ASTM A 307 threaded rod or threaded ASTM A 36 bar stock.
- .7 Adhesive Anchors: proprietary systems, pre-mixed, self-contained system with double glass vial system to contain epoxy, consisting of resin, hardener and aggregate.

2.2 FABRICATION

- .1 Fabricate reinforcing in accordance with CAN/CSA-A23.1 and [Reinforcing Steel Manual of Standard Practice by the Reinforcing Steel Institute of Canada].
- .2 Fabricate connectors in accordance with CAN/CSA A370.

PART 3 - EXECUTION

- 3.1 MANUFACTURER'S INSTRUCTIONS .1 Comply with manufacturer's written recommendations, including product technical bulletins, handling, storage and installation instructions and data sheets.

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- 3.2 PREPARATION .1 Direct and coordinate placement of metal anchors for masonry supplied to other Sections.
- 3.3 INSTALLATION .1 Supply and install masonry connectors and reinforcement in accordance with CAN/CSA A370, CAN/CSA A371, CAN/CSA-A23.1 and CSA-S304.1 unless indicated otherwise.
- .2 Supply and install additional reinforcement to masonry as indicated.
- 3.4 BONDING AND TYING .1 Bond walls of two or more wythes using connectors in accordance with CSA-S304.1, CAN/CSA A371 and as indicated.
- .2 Tie masonry veneer to backing in accordance with NBC, CSA-S304.1, CAN/CSA A371 and as indicated.
- .3 Install unit, adjustable, single wythe and multiple wythe joint reinforcement where indicated and in accordance with CAN/CSA A370 and CAN/CSA A371.
- .1 Bond walls of two or more wythes using metal connectors in accordance with CAN/CSA A371 and as indicated.
- .2 Install horizontal joint reinforcement 400 mm on centre.
- .3 Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 400 mm each side of opening.
- .4 Place joint reinforcement continuous in first and second joint below top of walls.
- .5 Lap joint reinforcement ends minimum 150 mm.
- .6 Connect joint corners and intersections with strap anchors 400 mm on centre.
- 3.5 GROUTING .1 Grout masonry in accordance with CSA-S304.1, CAN/CSA A371 and CAN/CSA A179 and as indicated.
- 3.6 ANCHORS .1 Supply and install metal anchors in accordance with CAN/CSA A370 and CAN/CSA A371.
- 3.7 LATERAL SUPPORT AND ANCHORAGE .1 Supply and install lateral support and anchorage in accordance with CSA-S304.1.
- 3.8 FIELD TOUCH-UP .1 Touch up damaged and cut ends of epoxy coated or galvanized reinforcement steel and connectors with compatible finish to provide continuous coating.

PART 1 - GENERAL

- 1.1 RELATED REQUIREMENTS**
- .1 Section 04 05 12 Masonry Mortar and Grout
 - .2 Section 04 05 19 Masonry Anchorage and Reinforcing
 - .3 Section 04 22 00 Concrete Unit Masonry
- 1.2 REFERENCES**
- .1 ASTM International Inc.
 - .1 ASTM D 2240-Latest Edition, Standard Test Method for Rubber Property - Durometer Hardness.
 - .2 Canadian Standards Association (CSA International)
 - .1 CAN/CSA A371-Latest Edition, Masonry Construction for Buildings.
 - .2 CAN/CSA-ISO 14021-Latest Edition, Environmental Labels and Declarations - Self Declared Environmental Claims (Type II Environmental Labelling).
- 1.3 ACTION AND INFORMATIONAL SUBMITTALS**
- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Product Data:
 - .1 Provide manufacturer's printed product literature, specifications and datasheets. Include product characteristics, performance criteria, and limitations.
 - .3 Shop Drawings:
 - .1 Provide shop drawings in accordance with Section 01 33 00 – Submittal Procedures
 - .2 Shop drawings consist of flashing and installation details. Indicate sizes, spacing, location and quantities of fasteners.
 - .4 Samples:
 - .1 Provide masonry accessory samples in accordance with Section 01 33 00 - Submittal Procedures, supplemented as follows
 - .1 Materials: two samples, illustrating colour and colour range. Include:
 - .1 Reglets.
 - .2 Two moisture control material samples, illustrating colour and colour range, size, and shape. Include:
 - .1 Weep hole vents.
 - .3 Two flashing material samples, illustrating colour and colour range, size, shape, and profile. Include as specified:
 - .1 Plastic and rubber flashings.
- 1.4 FIELD MEASUREMENTS**
- .1 Make field measurements necessary to ensure proper fit of members.

- 1.5 DELIVERY, STORAGE, AND HANDLING .1 Deliver, store and handle masonry accessories in accordance with, Section 01 61 00 - Common Product Requirements supplemented as follows:
- .1 Keep fillers and adhesives dry, protected against dampness, and freezing.
 - .2 Store packaged materials off ground and in accordance with manufacturer's written instructions.

PART 2 - PRODUCTS

- 2.1 MATERIALS .1 Weep hole vents: purpose-made PVC..
- .2 Mechanical fasteners: recommended by flashing manufacturer to suit project requirements.

- 2.2 MOISTURE CONTROL .1 Weep Hole Vents: PVC

- 2.3 FLASHINGS .1 Polyethylene Flashings:
- .1 Reinforced: two 0.75 mm thick polyethylene films bonded each side of asphalt treated creped kraft paper, reinforced with 12.7 x 12.7 mm fiberglass scrim.

PART 3 - EXECUTION

- 3.1 APPLICATION .1 Manufacturer's Instructions: comply with manufacturer's written recommendations, including product technical bulletins, handling, storage and installation instructions, and datasheets.

- 3.2 INSTALLATION: MATERIALS .1 Mechanical fasteners: install fasteners to suit application and in accordance with manufacturer's installation instructions.
- .2 Reglets: install reglets at locations indicated on drawings.

- 3.3 INSTALLATION: MOISTURE CONTROL .1 Install weep hole vents in vertical joints immediately over flashings, in exterior wythes of cavity wall and masonry veneer wall construction, at maximum horizontal spacing of 600 mm on centre.

**3.4 INSTALLATION:
FLASHINGS**

- .1 Build in flashings in masonry in accordance with CAN/CSA A371.
 - .1 Install flashings under exterior masonry bearing on foundation walls, slabs, shelf angles, and steel angles over openings, and at base of cavity wall and where cavity is interrupted by horizontal members or supports and as shown on drawings. Install flashings under weep hole courses and as indicated.
 - .2 In cavity walls and veneered walls, carry flashings from front edge of exterior masonry, under outer wythe, then up backing not less than 150 mm, and as follows:
 - .1 For masonry backing embed or bond flashing 25 mm in joint.
 - .2 For concrete backing, insert or bond flashing into reglets.
 - .3 For wood frame backing, staple flashing to walls behind water resistive paper, and lap joints.
 - .4 For gypsum board and glass fibre faced sheathing backing, bond to wall using manufacturer's recommended adhesive.
 - .3 Lap joints 150 mm and seal with adhesive.
- .2 Form flashing (end dams) at lintels, sills and wall ends to prevent water from travelling horizontally past flashing ends.
- .3 Install vertical flashing where outer veneer returns at window or door jambs, to prevent contact of veneer with inner wall.

PART 1 - GENERAL

- 1.1 RELATED REQUIREMENTS**
- .1 Section 04 05 12 Masonry Mortar and Grout
 - .2 Section 04 05 19 Masonry Anchorage and Reinforcing
 - .3 Section 04 05 23 Masonry Accessories
- 1.2 REFERENCES**
- .1 ASTM International Inc.
 - .1 ASTM E 336-Latest Edition, Standard Test Method for Measurement of Airborne Sound Attenuation Between Rooms in Buildings.
 - .2 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-A165 Series-Latest Edition, CSA Standards on Concrete Masonry Units.
 - .2 CAN/CSA A371-Latest Edition, Masonry Construction for Buildings.
 - .3 CSA S304.1-Latest Edition, Design of Masonry Structures.
 - .3 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULC-S101-Latest Edition, Standard Methods of Fire Endurance Tests of Building Construction and Materials.
- 1.3 ACTION AND INFORMATIONAL SUBMITTALS**
- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Product Data:
 - .1 Product Data: provide product data, including manufacturer's printed data sheets and catalog pages illustrating products to be incorporated into project for specified products.
- 1.4 QUALITY ASSURANCE SUBMITTALS**
- .1 Test and Evaluation Reports: provide certified test reports

PART 2 - PRODUCTS

- 2.1 MATERIALS .1 Standard concrete block units to CAN/CSA-A165 Series Latest Edition.
- .1 Classification: H/15/ A/M
 - .2 Dimensions - Nominal: 140 mm wide x 200 mm high x 400 mm long.
- .2 Fire rated concrete block units to CAN/CSA-A165 Latest Edition.
- .1 Classification: H/15/B/M except as modified by fire resistance requirements specified below.
 - .2 Fire resistant characteristics: aggregate used in units and equivalent thickness of units to the Supplement to the National Building Code of Canada 2010, and in accordance with CAN/ULC-S101, for fire-resistance ratings indicated.
 - .3 Size: modular.
- 2.2 REINFORCEMENT .1 Reinforcement in accordance with Section 04 05 19 - Masonry Anchorage and Reinforcing.
- 2.3 CONNECTORS .1 Connectors in accordance with Section 04 05 19 - Masonry Anchorage and Reinforcing.
- 2.4 MORTAR MIXES .1 Mortar and mortar mixes in accordance with Section 04 05 12 - Masonry Mortar and Grout.
- 2.5 GROUT MIXES .1 Grout and grout mixes in accordance with Section 04 05 12 - Masonry Mortar and Grout.
- 2.6 CLEANING COMPOUNDS .1 Use low VOC products.
- .2 Compatible with substrate and acceptable to masonry manufacturer for use on products.
 - .3 Cleaning compounds compatible with concrete unit masonry and in accordance with manufacturer's written recommendations and instructions.
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- 2.7 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 mm.
 - .2 No parallel edge length, width or height dimension for individual unit to differ by more than 2 mm.
 - .3 Out of square tolerance not to exceed 2 mm.
- .2 Tolerances for architectural concrete masonry units in accordance with CAN/CSA A165.1, supplemented as follows:
- .1 Maximum variation in length or height between units within specific job lot for specified dimension not to exceed 2 mm.
 - .2 No parallel edge length, width or height dimension for individual unit to differ by more than 2 mm.
 - .3 Out of square tolerance not to exceed 2 mm.
 - .4 Maximum variation in width between units within specific job lot for specified dimension not to exceed 2 mm.

PART 3 - EXECUTION

- 3.1 EXAMINATION** .1 Verify surfaces and conditions are ready to accept work of this Section.
- .2 Commencing installation means acceptance of existing substrates.
- 3.2 PREPARATION** .1 Protect adjacent finished materials from damage due to masonry work.
- 3.3 INSTALLATION** .1 Concrete block units:
- .1 Bond: running.
 - .2 Coursing height: 200mm for one block and one joint.
 - .3 Jointing: concave where exposed or where paint or other finish coating is specified.
- .2 Jointing: provide concave joints.
- 3.4 REINFORCEMENT** .1 Install reinforcing in accordance with Section 04 05 19 - Masonry Anchorage and Reinforcing
- 3.5 CONNECTORS** .1 Install connectors in accordance with Section 04 05 19 - Masonry Anchorage and Reinforcing.
- 3.6 MORTAR PLACEMENT** .1 Place mortar in accordance with Section 04 05 12 - Masonry Mortar and Grout.
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- 3.7 GROUT PLACEMENT. .1 Place grout in accordance with Section 04 05 12 - Masonry Mortar and Grout.
- 3.8 CONSTRUCTION .1 Cull out masonry units, in accordance with CAN/CSA A165.
- .2 Build in miscellaneous items such as bearing plates, steel angles, bolts, anchors, inserts, sleeves and conduits.
- .3 Construct masonry walls using running bond.
- .4 Build around frames previously set and braced. Fill behind hollow frames within masonry walls with mortar or grout and embed anchors.
- .5 Fit masonry closely against electrical and plumbing outlets so collars, plates and covers overlap and conceal cuts.
- .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 Ensure compacted head joints. Use full or face-shell joint as indicated.
- .8 Tamp units firmly into place.
- .9 Do not adjust masonry units after mortar has set. Where resetting of masonry is required, remove, clean and reset units in new mortar.
- .10 Tool exposed joints concave; strike concealed joints flush.
- .11 After mortar has achieved initial set up, tool joints.
- .12 Do not interrupt bond below or above openings.
- 3.9 REPAIR/ RESTORATION .1 Upon completion of masonry, fill holes and cracks, remove loose mortar and repair defective work.
- 3.10 CLEANING .1 Clean in accordance with Section 01 74 11 - Cleaning, supplemented as follows.
- .1 Progress Cleaning:
- .1 Standard Concrete Unit Masonry:
- .1 Allow mortar droppings on masonry to partially dry then remove by means of trowel, followed by rubbing lightly with small piece of block. Clean wall surface with suitable brush or burlap.
- 3.11 PROTECTION .1 Brace and protect concrete unit masonry.