

DIVISION 4  
MASONRY





## SECTION 04100

### MORTAR

#### PART 1 GENERAL

##### 1.01. SECTION INCLUDES

- A. Mortar for masonry.

##### 1.02. RELATED WORK

- A. Section 01400 - quality control: testing laboratory services.
- B. Section 04300 - unit masonry system: installation of mortar and grout.

##### 1.03. REFERENCES

- A. ASTM C91 - masonry cement.
- B. ASTM C94 - ready-mixed concrete.
- C. ASTM C144 - aggregate for masonry mortar.
- D. ASTM C150 - Portland cement.
- E. ASTM C207 - hydrated lime for masonry purposes.
- F. ASTM C270 - mortar for unit masonry.
- G. ASTM C476 - grout for masonry.
- H. ASTM C780 - preconstruction and construction evaluation of mortars for plain and reinforced unit masonry.
- I. ASTM C1019 - Method of sampling and testing grout.
- J. IMIAC - International Masonry Industry All-Weather Council: recommended practices and guide specifications for cold weather masonry construction.

##### 1.04. SUBMITTALS

- A. Submit product data under provisions of section 01300.
- B. Submit manufacturer's certificate under provisions of section 01400 that products meet or exceed specified requirements.

##### 1.05. DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site under provisions of section 01600.
- B. Store and protect products under provisions of section 01600.
- C. Maintain packaged materials clean, dry, and protected against dampness, freezing, and foreign matter.

#### 1.06. ENVIRONMENTAL REQUIREMENTS

- A. Cold weather requirements: IMIAC - recommended practices and guide specifications for cold weather masonry construction.

#### 1.07 MIX TESTS

- A. Testing of mortar mix in accordance with ASTM C780.

### PART 2 PRODUCTS

#### 2.01 MATERIALS

- A. Portland Cement: ASTM C150, Type I, gray color.
- B. Masonry Cement: ASTM C91, Type S.
- C. Mortar Aggregate: ASTM C144, standard masonry type.
- D. Hydrated Lime: ASTM C207, Type S.
- E. Water: clean and potable.

#### 2.02 MORTAR MIXES

- A. Mortar for all other masonry: ASTM C270, Type S utilizing the proportion method to achieve 1800 psi strength.
- B. Mortar for all below grade zones of walls: ASTM C270, Type S utilizing the proportion method to achieve 2500 psi strength

#### 2.03 MORTAR MIXING

- A. Thoroughly mix mortar ingredients in quantities needed for immediate use in accordance with ASTM C270.
- B. Add mortar color in accordance with manufacturer's instructions. Provide uniformity of mix and coloration.
- C. Do not use anti-freeze compounds to lower the freezing point of mortar.
- D. If water is lost by evaporation, retemper only within two hours of mixing.

- E. Use mortar within two hours after mixing at temperatures of 80 degrees F (26 degrees C), or two-and-one-half hours at temperatures under 50 degrees F (10 degrees C).

### PART 3 EXECUTION

#### 3.01 INSTALLATION

- A. Install mortar and grout to requirements of the specific masonry section 04300.
- B. Work grout into masonry cores and cavities to eliminate voids.
- C. Do not displace reinforcement while placing grout.
- D. Remove grout spaces of excess mortar.

END OF SECTION

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## SECTION 04200

### UNIT MASONRY

#### PART 1 - GENERAL

##### 1.1. DESCRIPTION

- A. This Section covers unit masonry work shown on Drawings.

##### 1.2. QUALITY ASSURANCE

- A. Manufacturer: Obtain masonry units from one (1) manufacturer of uniform texture and color for each kind required and for each continuous area and visually-related areas.

##### 1.3. SUBMITTALS

- A. Shop Drawings.
  - 1. Submit for reference only manufacturer's specifications and other data for each type of masonry unit and accessories.
  - 2. Include instructions for handling, storage, installation, and protection of each.
- B. Certifications.
  - 1. Submit manufacturer's certification that each type of masonry unit and accessories meets the specified requirements.

##### 1.4. JOB CONDITIONS

- A. Protect top of masonry walls from moisture with strong, waterproof, non-staining covering.
  - 1. Extend membrane at least two feet (2') down both sides of walls and anchor securely in place.
- B. Protect masonry against freezing when the temperature of the surrounding air is forty degrees F. (40°F.) and falling.
  - 1. Heat materials and provide temporary protection of completed portions of masonry work.
  - 2. Comply with the requirements of the governing code and with the "Construction and Protection Recommendations for Cold Weather Masonry Construction" of the Technical Notes on Brick and Tile Construction by the Structural Clay Products Institute.
- C. Frozen Materials and Work.
  - 1. Do not use frozen materials or materials mixed or coated with ice or frost.
  - 2. For masonry which is specified to be wetted, comply with the SCPI recommendations.
  - 3. Do not build on frozen work.

4. Remove and replace masonry work damaged by frost or freezing.
  5. Do not lower the freezing point of mortar by use of admixtures or antifreeze agents.
- D. Contractor is solely responsible for the proper size and location of anchors, chases, recesses, openings, and embedded items required for the Work.

## PART 2 - PRODUCTS

### 2.1. MASONRY UNITS

- A. Concrete Masonry Units General.
1. Size: Manufacturer's standard units with nominal face dimensions of sixteen (16") long x eight inches (8") high (15-5/8" x 7-5/8" actual), unless otherwise shown.
  2. Special shapes: Provide where shown and where required for lintels, corners, jambs, sash, control joints, headers, bonding, and other special conditions.
  3. Hollow load-bearing: Provide units complying with ASTM C90 lightweight, Grade N, Type I, where shown as concrete masonry.
  4. Cure, moisture control, and shrinkage:
    - a. Cure units in a moisture-controlled atmosphere or in an autoclave at normal pressure and temperature to comply with ASTM C90, Type I.
    - b. Provide manufacturer's standard color and texture, unless otherwise shown or specified.
- B. Modular Brick Units
1. Face Brick: ANSI/ASTM C216, Type FB\*. Grade SW, nominal 8" long x 4" wide x 2-1/3" high modular units.
  2. Minimum compression strength of 3000 psi based on gross area.
  3. Select brick units from a regional manufacturer supplier who can best match existing face brick used in the 1980 addition to the Rocky Ford Water Filtration Plant Addition.
    - a. Acme Brick Company; Castle Rock, CO
    - b. Summit Brick & Tile c., Pueblo, CO
    - c. Robinson Brick Company; Denver, CO

### 2.2. MORTAR MATERIALS

- A. Portland Cement.
1. ASTM C150, Type I; except Type III may be used to reduce protection requirements specified for laying masonry in cold weather.
  2. Provide natural color or white cement as required to produce the required mortar color.
- B. Mixes: ASTM C270, Proportion Specifications, Type S.
1. Hydrated Lime: ASTM C207, Type S.
  2. Water: Clear and free of deleterious materials.
  3. Sand: ASTM C144, except for joints less than 1/4", use aggregate graded with one hundred percent (100%) passing the No. 16 sieve.
  4. Do not use calcium chloride.

## 2.3. MASONRY ACCESSORIES

- A. Continuous Wire Reinforcing and Ties for Masonry.
  - 1. General.
    - a. Provide welded wire units prefabricated in straight lengths of not less than ten feet (10') with matching corner and tee units.
    - b. Fabricate from cold-drawn, steel wire complying with ASTM A82, with deformed continuous side rods and plain cross-rods and a unit width of one and one-half (1½") to two inches (2") less than thickness of wall or partition.
  - 2. Provide units fabricated as follows:
    - a. Ladder-type fabricated with single pair of 9 gauge side rods and 9 gauge perpendicular cross-rods spaced not more than sixteen inches (16") o.c. in all masonry construction.
- B. Reinforcing Bars.
  - 1. ASTM A615, design grade 60 steel, deformed bars.
- C. Individual Wire Ties for Masonry.
  - 1. Fabricate from 3/16" cold-drawn steel wire complying with ASTM A82, unless otherwise shown, and with attachment for use with dovetail anchor slots at concrete.
  - 2. For use with hollow masonry units laid with cells vertical, provide rectangular shaped ties.
  - 3. In exterior walls, fabricate from steel with 1.5 oz. hot-dip zinc coating complying with ASTM A153, Class B2, or fabricate from steel wire with not less than 7-mil copper coating complying with ASTM B227, Grade 30 HS.
- D. Anchoring Devices for Masonry.
  - 1. Provide straps, bars, bolts, and rods of the type and size shown but fabricated from not less than 16 gauge sheet metal or 3/8" diameter rod stock unless otherwise shown.
  - 2. For devices which extend into exterior wythe, fabricate from steel with 1.5 oz. hot-dip galvanized coating complying with ASTM A153, Class B2 or from steel with not less than 7-mil copper coating complying with ASTM B227, Grade 30 HS.
- E. Concrete Inserts for Masonry.
  - 1. Unit type: Furnish cast iron or malleable iron inserts of the type and size shown or fabricated from not less than 12 gauge steel, hot-dip galvanized after fabrication with 1.5 oz. zinc coating complying with ASTM A153, Class B2.
  - 2. Dovetail slots:
    - a. Furnish dovetail slots with filler strips where shown.
    - b. Fabricate from 16 gauge galvanized steel unless otherwise shown.
  - 3. Coordinate requirements regarding placement of inserts for anchoring of masonry work.

- F. Flashings for Masonry.
  - 1. Provide concealed flashings, shown to be built into masonry.
  - 2. Provide concealed flashings as follows:
    - a. Copper-fabric laminate: Copper bonded to asphalt impregnated cotton fabric both sides.
  
- G. Miscellaneous Masonry Accessories.
  - 1. Reinforcing bars: Deformed steel reinforcing bars complying with ASTM A615, Grade 60 of the sizes shown.
  - 2. Premolded control joint strips: Solid rubber strips with a Shore A durometer hardness of 60 to 80, designed to fit standard sash block and maintain lateral stability in masonry wall.
  
- H. Insulation, reference Section 07200, Insulation.

## PART 3 - EXECUTION

### 3.1. INSTALLATION

- A. General.
  - 1. Build walls and other masonry construction to the full thickness shown, except build single-wythe walls to the actual thickness of the masonry units using units of nominal thickness shown or specified.
  - 2. Build chases and recesses as shown and as may be required for the other work.
    - a. Provide not less than eight inches (8") of masonry between chase or recess and jamb of openings and between adjacent chases and recesses.
  - 3. Cut masonry units with motor-driven saw designed to cut masonry with clean, sharp, unchipped edges.
    - a. Cut units as required to provide pattern shown and to fit adjoining work neatly.
    - b. Use full units without cutting wherever possible.
  - 4. Do not wet concrete masonry units.
  - 5. Pattern bond.
    - a. Lay exposed, textured concrete masonry in stack bond pattern mitered at external corners and lay all other masonry in running bond with vertical joint in each course centered on units in courses above and below, unless otherwise noted on the Drawings.
    - b. Lay concealed masonry with all units in a wythe bonded by lapping not less than two inches (2").
    - c. Bond and interlock each course of each wythe at corners, unless otherwise shown and at junctures of masonry walls on foundation structure with masonry walls on structural slabs.
    - d. Do not use units with less than four inches (4") horizontal face dimensions at corners or jambs.
  - 6. Layout.

- a. Layout walls in advance for accurate spacing of surface bond patterns with uniform joint widths and to properly locate openings, movement-type joints, returns and offsets.
  - b. Avoid the use of less-than-half-size units at corners, jambs, and wherever possible at other locations.
7. Lay-up walls plumb and true and with coursed level, accurately spaced, and coordinated with other work.
- B. Stopping and Resuming Work.
1. Rack back  $\frac{1}{2}$ -masonry unit length in each course; do not tooth.
  2. Clean exposed surfaces of set masonry and remove loose masonry units and mortar prior to laying fresh masonry.
- C. Built-In Work.
1. As the work progresses, build-in items specified under this and other sections of these specifications.
  2. Fill in solidly with masonry around built-in items.
  3. Fill space between hollow metal frames and masonry solidly with mortar.
  4. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath in the joint below and rod mortar or grout into core.
- D. Intersecting Load-bearing Walls.
1. If carried up separately, block vertical joint with eight inch (8") maximum offsets.
  2. Provide rigid steel anchors spaced not more than four feet (4') o.c. vertically or omit blocking and provide rigid steel anchors at not more than two feet (2'),  $1\frac{1}{2}$ " x  $\frac{1}{4}$ " x 2' long with ends turned up not less than two inches (2") or with cross-pins.
  3. If used with hollow masonry units, embed ends in mortar filled cores.
- E. Non-Bearing Interior Partition Walls: Build full height of story to underside of structure above, unless otherwise shown.
- F. Mortar Bedding and Jointing.
1. Mixing.
    - a. Mix mortar ingredients for a minimum of five (5) minutes in a mechanical batch mixer.
    - b. Retemper mortar as required to restore workability.
  1. Do not use mortar if more than two and one-half ( $2\frac{1}{2}$ ) hours have elapsed since initial mixing.
  2. Lay solid masonry units with completely filled bed and head joint; butter ends with sufficient mortar to fill head joints and shove into place.
    - a. Do not slush head joints.
  3. Hollow concrete masonry units.
    - a. Lay with full mortar coverage on horizontal and vertical face shells.
    - b. Bed webs in mortar in starting course on footings and foundation walls and in all courses of piers, columns, and pilasters, and where adjacent to cells or cavities to be reinforced or to be filled with concrete or grout.

4. Joints.
    - a. Maintain joint widths shown, except for minor variations required to maintain bond alignment.
    - b. If not shown, lay walls with 3/8" joints.
    - c. Cut joints flush for textured masonry walls or those which are to be concealed or to be covered by other materials, unless otherwise shown.
    - d. Tool exposed joints slightly concave at concrete masonry unless otherwise shown.
    - e. Rake out mortar in preparation for application of caulking or sealants where shown.
  5. Remove masonry units disturbed after laying.
    - a. Clean and relay in fresh mortar.
    - b. Do not pound corners at jambs to fit stretcher units which have been set in position.
    - c. If adjustments are required, remove units, clean off mortar and reset in fresh mortar.
- G. Cavity Walls.
1. Tie exterior wythe to concrete or masonry back-up with through wall ladder type reinforcing spaced not more than sixteen (16") o.c. vertically and continuous horizontally.
  2. Provide weep holes in exterior wythe of cavity wall located immediately above ledges and flashing spaced two feet (2') o.c., unless otherwise shown.
- H. Horizontal Joint Reinforcing.
1. Provide continuous horizontal joint reinforcing in all masonry construction.
    - a. Fully embed longitudinal side rods in mortar for their entire length with a minimum cover of 5/8" on exterior side of walls and 1/2" at other locations.
    - b. Lap reinforcement a minimum of six inches (6") at ends of units.
    - c. Do not bridge control and expansion joints with reinforcing except at wall openings.
    - d. Provide continuity at corners and wall intersections by use of prefabricated "L" and "T" sections.
    - e. Cut and bend units as directed by manufacturer for continuity at returns, offsets, column fireproofing, pipe enclosures, and other special conditions.
  2. Space continuous horizontal reinforcing as follows:
    - a. Single-wythe walls: Sixteen inches (16") o.c. vertically, unless otherwise shown.
    - b. Parapets: Eight inch (8") o.c. vertically, unless otherwise shown.
    - c. Masonry openings greater than one foot (1') wide, with horizontal joint reinforcing placed in two (2) horizontal joints:
      - 1) Approximately eight inches (8") apart, both immediately above the lintel and immediately below the sill.
      - 2) Extend reinforcing a minimum of two feet (2') beyond jambs of the opening, bridging control joints where provided.

- d. In addition to wall reinforcing, provide additional reinforcing at openings as required to comply with the above.

I. Reinforcing Bars.

1. Provide vertical and horizontal reinforcing as shown on Drawings or where spacing and location is not indicated provide reinforcing in walls as follows:
  - a. At grouted vertical masonry cells spaced thirty-two inches (32") o.c., adjacent to openings at wall offsets and corners reinforce with one (1) 5/8" round deformed bar.
  - b. Reinforce grouted horizontal bond beams at joist, purlin and beam bearing elevations, at tops of masonry walls and at locations indicated on the drawings with two (2) 5/8" round deformed bars.

J. Anchoring Masonry Work.

1. Anchor masonry to structural members where masonry abuts or faces such members:
  - a. Provide an open space not less than one-half inch (1/2") in width between masonry and structural member, unless otherwise shown.
  - b. Keep open space free of mortar or other rigid materials.
  - c. Anchor with metal ties embedded in masonry joints and attached to structure.
  - d. Provide anchors with flexible tie sections, unless otherwise shown.
2. Anchor single-wythe masonry veneer to backing with metal ties as follows:
  - a. Anchor veneer to structural members with metal anchors embedded in masonry joints and attached to structure.
    - 1) Provide anchors with flexible tie section, unless otherwise shown.
  - b. Anchor veneers to concrete back-up with dovetail anchors.
  - c. Space veneer anchors no more than sixteen inches (16") o.c. vertically and twenty-four (24") o.c. horizontally, unless otherwise shown.
  - d. Provide additional anchors within one foot (1') of openings and space not more than three feet (3') around perimeter.

K. Lintels.

1. Install loose lintels of steel and other materials where shown.
2. Provide masonry lintels where shown and wherever openings of more than one foot (1') are shown without structural steel or other supporting lintels.
  - a. Provide precast or formed-in-place masonry lintels.
  - b. Thoroughly cure precast lintels before handling and installation.
  - c. Temporarily support formed-in-place lintels.
  - d. Provide one (1) reinforcing bar for each four inches (4") of wall thickness and of a size number not less than the number of feet of opening width, unless shown otherwise.
3. Provide minimum bearing at each jamb of four inches (4") for openings less than six feet (6') wide and eight inches (8") for wider openings.

L. Control and Expansion Joints.

1. Provide vertical expansion, control, and isolation joints in masonry where shown.
2. Rake out mortar in preparation for application of caulking and sealants.

M. Flashing of Masonry Work:

1. Provide concealed flashings in masonry work as shown.
2. Prepare masonry surfaces smooth and free from projections which might puncture flashing.
3. Place through-wall flashing on bed of mortar and cover with mortar.
4. Seal flashing penetrations with mastic before covering with mortar.
5. Terminate flashing ½" from face of wall, unless otherwise shown.
6. Extend flashings beyond edge of lintels and sills at least four inches (4") and turn up edge on sides to form pan to direct moisture to exterior.
7. Provide weep holes in the head joints of the first course of masonry immediately above concealed flashings.
8. Install reglets and nailers for flashing and other related work where shown to be built into masonry work.

N. Insulation.

1. Install insulative fill at concrete masonry cells and in masonry wall cavity at all exterior walls.

3.2. REPAIR, POINTING, AND CLEANING

- A. Remove and replace masonry units which are loose, chipped, broken, stained, or otherwise damaged or if units do not match adjoining units as intended.
1. Provide new units to match adjoining units and install in fresh mortar or grout, pointed to eliminate evidence of replacement.
- B. Pointing.
1. During the tooling of joints, enlarge voids or holes, except weep holes, and completely fill with mortar.
  2. Point-up joints at corners, openings, and adjacent work to provide a neat, uniform appearance, properly prepared for application of caulking or sealant compounds.
- C. Clean exposed concrete masonry units and textured concrete masonry by dry brushing at the end of each day's work and after final pointing to remove mortar spots and droppings.
- D. Water-repellant and color finish for exterior masonry walls: Reference Section 07160, Dampproofing.

END OF SECTION

**SECTION 04270  
GLASS UNIT MASONRY**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Glass masonry units.
- B. Mortar bedding and pointing mortar.
- C. Perimeter chase.

**1.02 RELATED SECTIONS**

- A. Section 04100 - Mortar: Mortar for glass unit masonry.
- B. Section 04200 - Unit Masonry
- C. Section 05120 - Structural Steel
- D. Section 07900 - Joint Sealers: Perimeter caulking.

**1.03 REFERENCES**

- A. ASTM A123 - Zinc (Hot-Galvanized) Coatings of Products Fabricated from Rolled, Pressed, and Forged Steel Shapes, Plates, Bars, and Strips.
- B. ASTM C780 - Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry.
- C. IMIAC - International Masonry Industry All-Weather Council: Recommended Practices and Guide Specifications for Cold Weather Masonry Construction.

**1.04 SUBMITTALS**

- A. Submit product data under provisions of Section 01300.
- B. Submit product data for glass units and accessories.

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Store and protect products under provisions of Manufacturer's Recommendations.
- B. Accept glass units on site on pallets. Inspect for damage.

**1.06 ENVIRONMENTAL REQUIREMENTS**

- A. Maintain materials and ambient air temperatures to minimum 50 degrees F prior to, during, and 48 hours after completion of work.
- B. Cold Weather Requirements: IMIAC - Recommended Practices and Guide Specifications for Cold Weather Masonry Construction.

#### 1.07 FIELD MEASUREMENTS

- A. Verify field measurements are as shown on Drawings.

### PART 2 PRODUCTS

#### 2.01 ACCEPTABLE MANUFACTURERS

- A. Solaris Glass Block Product - 884W Flemish
- B. Pittsburgh-Corning Product – Decora
- C. Saint-Gobain Product – Cloud
- D. Or Approved Equal

#### 2.02 GLASS UNITS

- A. Hollow Glass Units: Non-Load bearing, partially evacuated, hollow glass masonry units. Permanently seal hollow unit by heat fusing joint.
  - 1. Nominal Size: 8 x 8 x 4 inch.
  - 2. Color: clear glass.
  - 3. Pattern and Design: As noted above.
  - 4. Insulation Value: 'U' value of 0.481 BTU/sq ft/h/degree F.
  - 5. Compressive Strength: 400 - 600 psi
  - 6. Visible Light Transmittance: 81 percent.
  - 7. Shading Coefficient: 0.56
  - 8. Acoustic Sound Loss: 40 decibels.

#### 2.03 ACCESSORIES

- A. Panel Reinforcing: Two 9 gage rods spaced 2 inches apart with 14 gage cross rods welded 8 inches oc, galvanized after fabrication to 1.25 oz/sq ft. in accordance with ASTM A123.
- B. Expansion Strips: 7/16 x 4 inches nominal size, dense glass fiber matting.

- C. Panel Anchors: 20 gage x 1 - 3/4 inch wide steel strips, punched with three rows of elongated holes, pattern staggered, hot dip galvanized after fabrication to 1.25 oz/sq ft in accordance with ASTM A123.
- D. Perimeter Chase: Formed aluminum channel profile, 4-3/4 x 1-1/4 x 1/8 inch size, one piece per length installed, anodized to dark bronze color finish.
- E. Asphalt Emulsion: Water based asphalt emulsion.
- F. Sealant: Acrylic non-staining, waterproof type, of color selected.

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that openings are ready to receive work.
- B. Beginning of installation means installer accepts existing substrate and conditions.

#### 3.02 PREPARATION

- A. Clean glass units of foreign substances.
- B. Establish and protect lines, levels, and coursing.
- C. Protect elements surrounding the work of this Section from damage and disfiguration.

#### 3.03 INSTALLATION

- A. Erect glass units and accessories in accordance with manufacturer's instructions.
- B. Locate and secure perimeter metal chase.
- C. Coat sill under units with asphalt emulsion as a bond breaker, and allow to dry.
- D. Set panel anchors in mortar bed directly over coating.
- E. Provide full mortar joints. Furrowing not permitted. Remove excess mortar.
- F. Maintain uniform joint width of 1/4 inch.
- G. Place panel reinforcing at every second horizontal joint in full mortar bed and at first course above and below openings within the glass unit panel. Lap joints 6 inches. Discontinue reinforcement at expansion joints.

- H. Isolate panel from adjacent construction on sides and top with expansion strips concealed within perimeter trim. Keep expansion joint voids clear of mortar.
- I. Shore assembly until setting bed will maintain panel in position without movement.
- J. To accommodate pointing mortar, rake out joints 5/8 to 3/4 inch.
- K. Fill joints with pointing mortar. Pack into voids. Neatly tool surface to a concave profile.
- L. Remove excess mortar and sealant.
- M. Vacuum clean mortar joints.

#### 3.04 TOLERANCES

- A. Variation from Joint Width: Plus or minus 1/8 inch and minus 0 inches.
- B. Maximum Variation from Plane of Unit to Adjacent Unit: 1/32 inch.
- C. Maximum Variation of Panel from Plane: 1/8 inch.

#### 3.05 CLEANING

- A. Clean Work upon completion of installation.
- B. Do not scratch or deface units.

#### 3.06 PROTECTION OF FINISHED WORK

- A. Maintain protective boards at exposed external corners. Provide protection without damaging completed work.

END OF SECTION