

DIVISION 04 – MASONRY

04 00 00 MASONRY

04 01 00 Maintenance of Masonry

- 04 01 20 Maintenance of Unit Masonry
 - 04 01 20.51 Unit Masonry Maintenance
 - 04 01 20.52 Unit Masonry Cleaning
 - 04 01 20.91 Unit Masonry Restoration
 - 04 01 20.93 Testing and Sampling Brick Units for Restoration
- 04 01 40 Maintenance of Stone Assemblies
 - 04 01 40.51 Stone Maintenance
 - 04 01 40.52 Stone Cleaning
 - 04 01 40.91 Stone Restoration
- 04 01 50 Maintenance of Refractory Masonry
- 04 01 60 Maintenance of Corrosion-Resistant Masonry
- 04 01 70 Maintenance of Manufactured Masonry

04 05 00 Common Work Results for Masonry

- 04 05 13 Masonry Mortaring
 - 04 05 13.16 Chemical-Resistant Masonry Mortaring
 - 04 05 13.19 Epoxy Masonry Mortaring
 - 04 05 13.23 Surface Bonding Masonry Mortaring
 - 04 05 13.26 Engineered Masonry Mortaring
 - 04 05 13.29 Refractory Masonry Mortaring
 - 04 05 13.91 Masonry Restoration Mortaring
- 04 05 16 Masonry Grouting
 - 04 05 16.16 Chemical-Resistant Masonry Grouting
 - 04 05 16.26 Engineered Masonry Grouting
- 04 05 19 Masonry Anchorage and Reinforcing
 - 04 05 19.13 Continuous Joint Reinforcing
 - 04 05 19.16 Masonry Anchors
 - 04 05 19.26 Masonry Reinforcing Bars
 - 04 05 19.29 Stone Anchors
- 04 05 23 Masonry Accessories
 - 04 05 23.13 Masonry Control and Expansion Joints
 - 04 05 23.16 Masonry Embedded Flashing
 - 04 05 23.19 Masonry Cavity Drainage, Weepholes, and Vents

04 06 00 Schedules for Masonry

- 04 06 20 Schedules for Unit Masonry
 - 04 06 20.13 Masonry Unit Schedule
- 04 06 40 Schedules for Stone Assemblies
- 04 06 50 Schedules for Refractory Masonry
- 04 06 60 Schedules for Corrosion-Resistant Masonry
- 04 06 70 Schedules for Manufactured Masonry

04 08 00 Commissioning of Masonry

04 20 00 UNIT MASONRY

**SECTION 04 21 00
CLAY UNIT MASONRY**

CONSULTANT DESIGN GUIDELINE

MASONRY WALLS. Design masonry walls with a clear cavity width of two inches, excluding the insulation, for removal of mortar droppings between Wythes.

WALL TIES. Specify adjustable ties with attachable drips to be located within the cavity. Do not permit corrugated, galvanized wall ties.

Masonry anchors should be the type that can be applied on the exterior of the sheathing and that they be able to take vertical movement (slide up and down) . One brand that is good for this is HB anchor , the x- seal or approved equal . It also assists in keeping water out of its penetrations.

INCLUDE IN CONSTRUCTION DOCUMENTS

Multiple Wythe Joint Reinforcement. Truss type with moisture drip galvanized 3/16" rods with nine gage cross tile.

Masonry Flashing End Laps. Send end laps in through-wall flashing with mastic; a six-inch lap is required.

Discontinuous Flashing. Turn flashing up two inches to form a dam at each end where through-wall flashing is discontinuous, such as locations above doors and windows. Provide positive weeps in head joints of the outer masonry, just above the flashing, for water drainage.

EXECUTION

Sample Wall Panels. Prior to installation of masonry, and at no cost to the University, erect three sample masonry wall panels to display three different brick samples for review and selection by the University Facilities Management Planning Group.

Contractor shall construct masonry panels no less than 4' x 6' in size. Samples panels shall be full thickness, including face and backup Wythes, and include all accessories. Do not allow masonry cement in mortar.

Locate masonry panels on site in locations indicated or, if not indicated, as directed by the Architect.

Do not proceed with masonry work until masonry panels approved by the architect and Facilities Management Planning Group.

END SECTION

04 21 13 Brick Masonry

04 21 13.13 Brick Veneer Masonry

04 21 13.23 Surface-Bonded Brick Masonry

04 21 16 Ceramic Glazed Clay Masonry

04 21 19 Clay Tile Masonry
04 21 23 Structural Clay Tile Masonry
04 21 26 Glazed Structural Clay Tile Masonry
04 21 29 Terra Cotta Masonry

04 22 00 Concrete Unit Masonry

04 22 00.13 Concrete Unit Veneer Masonry
04 22 00.16 Surface-Bonded Concrete Unit Masonry
04 22 19 Insulated Concrete Unit Masonry
04 22 23 Architectural Concrete Unit Masonry
04 22 23.13 Exposed Aggregate Concrete Unit Masonry
04 22 23.16 Fluted Concrete Unit Masonry
04 22 23.19 Molded-Face Concrete Unit Masonry
04 22 23.23 Prefaced Concrete Unit Masonry
04 22 23.26 Sound-Absorbing Concrete Unit Masonry
04 22 23.29 Split-Face Concrete Unit Masonry
04 22 33 Interlocking Concrete Unit Masonry

04 23 00 Glass Unit Masonry

04 23 13 Vertical Glass Unit Masonry
04 23 16 Glass Unity Masonry Floors
04 23 19 Glass Unit Masonry Skylights

04 24 00 Adobe Unit Masonry

04 24 13 Site-Cast Adobe Unit Masonry
04 24 16 Manufactured Adobe Unit Masonry

04 25 00 Unit Masonry Panels

04 25 13 Metal-Supported Unit Masonry Panels

04 27 00 Multiple-Wythe Unit Masonry

04 27 13 Composite Unit Masonry
04 27 23 Cavity Wall Unit Masonry

04 28 00 Concrete Form Masonry Units

04 28 13 Dry-Stacked, Concrete-Filled Masonry Units
04 28 23 Mortar-Set, Concrete-Filled Masonry Units

04 40 00 STONE ASSEMBLIES

04 41 00 Dry-Placed Stone

04 42 00 Exterior Stone Cladding

04 42 13 Masonry-Supported Stone Cladding
04 42 16 Steel-Stud –Supported Stone Cladding
04 42 19 Strongback-Frame-Supported Stone Cladding

04 42 23 Truss-Supported Stone Cladding
04 42 26 Grid-System-Supported Stone Cladding
04 42 43 Stone Panels for Curtain Walls

04 43 00 Stone Masonry

04 50 00 REFRACTORY MASONRY

04 51 00 Flue Liner Masonry
04 52 00 Combustion Chamber Masonry
04 53 00 Castable Refractory Masonry
04 54 00 Refractory Brick Masonry
04 57 00 Masonry Fireplaces

04 60 00 CORROSION-RESISTANT MASONRY

04 61 00 Chemical-Resistant Brick Masonry
04 62 00 Vitrified Clay Liner Plate

04 70 00 MANUFACTURED MASONRY

04 71 00 Manufactured Brick Masonry
04 71 13 Calcium Silicate Manufactured Brick Masonry

04 72 00 Cast Stone Masonry

04 73 00 Manufactured Stone Masonry
04 73 13 Calcium Silicate Manufactured Stone Masonry