

SECTION 04150
MASONRY ACCESSORIES

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope

1. Furnish and install masonry accessories where indicated on Drawings or specified
2. Work to be installed
 - a. Bolts
 - b. Anchors
 - c. Nailing blocks and truss bearing plates
 - d. Inserts
 - e. Flashing and other sheet metal
 - f. Steel lintels
 - g. Mechanical and electrical sleeves and blockouts
 - h. Reinforcing steel
 - i. All other built-in members

B. Additional Requirements Specified Elsewhere

1. Section 01010: Summary of Work
2. Section 01340: Shop Drawings, Product Data and Supplies
3. Section 01600: Materials and Equipment

C. Related Requirements Specified Elsewhere

1. Section 03200: Concrete Reinforcement
2. Section 03300: Cast-In-Place Concrete
3. Section 04100: Mortar and Grout
4. Section 04200: Unit Masonry
5. Division 6: Wood and Plastics
6. Section 07600: Flashing and Sheet Metal
7. Section 07900: Joint Sealants
8. Division 8: Doors and Windows
9. Section 09900: Painting
10. Division 15: Mechanical
11. Division 16: Electrical

1.2 SUBMITTALS

- A. In accordance with Section 01340

- B. Shop Drawings and Product Data
 - 1. Material specification data
 - 2. Reinforcing and control joint location drawings
 - 3. Installation instruction
 - 4. Dimensioned cutouts and blockouts in unit masonry
- C. Certification of Compliance
 - 1. Manufacturer's affidavit of compliance certifying
 - a. All materials comply with applicable standards
 - b. All materials comply with these Specifications

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Store anchors, ties, reinforcement, insulation, and other accessories off the ground and under cover

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Wall Ties and Reinforcing
 - 1. Horizontal reinforcing
 - a. Heavy Duty Dur-O-Wal or equivalent welded ladder-type design
 - b. Use prefabricated corners and tees
 - c. Width shall be the same as the nominal width of wall
 - 2. Vertical reinforcing: ASTM A615, Grade 60
- B. Control Joints
 - 1. $\frac{3}{8}$ " minimum, $\frac{1}{2}$ " maximum thick non-asphaltic fiberboard, except where otherwise detailed on Drawings
- C. Insulation
 - 1. Silicon treated Perlite loose fill insulation
 - a. Each package clearly marked
 - 2. Conform to ASTM C549 and Federal Specification HH-1-574b
 - 3. Design basis: Product of a member of the Perlite Institute, Inc., or equivalent
 - 4. Prior to installation of the insulation, the manufacturer shall furnish a certificate to the Engineer stating the product conforms to the Standard Specifications for Silicon Treated Perlite Loose Fill Insulation as adopted and published by Perlite Institute, Inc.
 - 5. Engineer will consider use of rigid insert insulation or foam, subject to shop drawing approval

PART 3 - EXECUTION

3.1 PREPARATION

- A. Cleaning: Thoroughly clean all foreign matter including dirt, dust, concrete splatter, curing compound, etc. prior to installation of accessories

3.2 INSTALLATION

A. Reinforcing

1. Block Walls

- a. Reinforce horizontally by use of ladder design steel reinforcement placed continuously in every second horizontal block course
- b. Lap 6" at ends
- c. Provide prefabricated L or T sections at intersecting walls
- d. Provide one additional piece above and below opening
 - 1) Extending 2' minimum beyond each side of the opening
- e. Refer to Drawings for additional reinforcing
- f. Reinforce vertically as shown on the Drawings
- g. Vertical reinforcement shall be secured in place prior to grouting with a minimum clearance of 1/2" to face of masonry
- h. Place accurately as shown on Drawings to tolerance of 1/4"
- i. All splices in vertical reinforcement shall be lapped as indicated on the Drawings
- j. Where masonry walls intersect concrete foundation walls vertically or horizontally, provide dowels as indicated on the Drawing and grout in solid
- k. Refer to Drawings, Drawing Notes and Structural General Notes for other requirements

B. Control Joints

- 1. Provide control joints at maximum 30' spacings, full height
- 2. Provide control joints at intersection of interior and exterior masonry walls, unless noted otherwise on Drawings
 - a. Joints shall be installed completely through and full height of masonry
- 3. Reinforcement in control joints
 - a. Horizontal ladder-type mortar joint reinforcement shall not continue across control joints
 - b. Bond beam reinforcing shall be continuous through control joints
- 4. Keep the control joint free of mortar by using a continuous wood strip (3/8" x 3/4" deep) temporarily set in the wall
- 5. Control joints shall receive sealant as specified in Section 07900

C. Installation of Perlite

- 1. Insulation shall be installed in all exterior wall masonry hollow cores
- 2. Insulation shall be poured directly into the wall at any convenient vertical interval
 - a. Wall sections under openings shall be filled before sills are placed
 - b. Select vertical fill intervals to assure all cells are filled to full wall height

3. All holes and openings in the wall through which insulation can escape shall be permanently sealed or caulked prior to installation of the insulation
4. See Drawings
5. Engineer will consider use of rigid insert insulation or foam, subject to shop drawing approval

D. Loose Lintels

1. Provide loose lintels at all openings in masonry walls greater than 12" unless otherwise indicated on the Drawings
2. Lintel angles shall bear 6" minimum on masonry grouted solid to the foundation
3. Lintel sizes have been indicated on the Drawings

END OF SECTION