

## CONCRETE FORMWORK

03100

Section 03100

### PART 2. PRODUCTS

(SAMPLE SUGGESTED SPECIFICATION)

#### 2.XX MATERIALS

- A. Vapor Barrier Sheet: Stego industries 15 mil "Stego Wrap Vapor Barrier" and "Stego Wrap Red Polyethylene Tape", 877/223-4333; Raven industries 16 mil "Dura Skrim D 16 WBK" with Raven two sided tape and 4-inch black tape, 800/635-3456.

### PART 3. EXECUTION

#### 3.XX INSTALLATION

- A. Vapor Barrier: Verify that at least 6-inches of compacted underslab base fill is in place, then cover with vapor barrier sheet, lapping edges 6-inches minimum and taping all seams with vapor barrier tape. Use vapor barrier sheet to boot around all penetrations and seal with tape to create a continuous vapor barrier. Do not penetrate vapor barrier with screed pins, wood stakes or other items. Sand, or other granular fill prohibited above vapor barrier.

**END OF SECTION**

## CAST-IN-PLACE CONCRETE

03300

Section 03300

### PART 1. GENERAL

(SAMPLE SUGGESTED SPECIFICATION)

#### 1.XX QUALITY ASSURANCE

- A. Pre-Installation Conference: Schedule and administer pre-installation conference to review finishing techniques of concrete, use of additives, application of curing compounds, with attending Architect, job superintendent, concrete supplier, and concrete finishing subcontractor. Include inspection of the vapor barrier for proper joint seals, and no unsealed penetrations.

### PART 2. PRODUCTS

#### 2.XX WATER REDUCING ADMIXTURE

- A. ASTM C494, Type A. All concrete slabs on grade contain a Type A admixture in the basic design with dosages high enough to reduce water by at least 10% from the same mix without the admixture. This admixture shall produce no retardation.

- B. Products:
  - 1. "WRDA-19" by Grace Construction Products.
  - 2. "Polyheed" by Master Builders.

## **2.XX SLAB-ON-GRADE MIX DESIGN**

- A. 28 day minimum compressive strength of 3500 psi per ACI 301, with minimum cement of 564 lbs./cu.yd. and maximum water/cement ratio 0.42.
- B. ASTM C33 fine aggregate and size No. 67 (3/4-inch to No. 4) coarse aggregate.
- C. Maximum slump 5-inches with water reducing admixture.

## **PART 3. EXECUTION**

### **3.XX EXAMINATION**

- A. Verify that no vapor barrier damage has occurred since the pre-installation conference inspection. Repair all damage to achieve complete and continuous vapor barrier membrane.

### **3.XX PREPARATION**

- A. Remove water from vapor barrier with portable high-speed air blowers just prior to slab-on-grade pour.

### **3.XX INSTALLATION**

- A. Install slab-on-grade screeds without penetrating the vapor barrier.
- B. All interior slabs-on-grade shall contain water-reducing admixture.
- C. Slab concrete shall be of a flowable consistency (5-inch slump with admixture), pumped and well tamped into place, and finishes compressed and compacted by troweling. Finish slab free from small hollows or bumps and graded to the elevations called for, with depressions in floors between high spots not greater than 1/8-inch below a 10-foot straightedge in accordance with ACI 302 Surface Finish Tolerance, and not vary more than 1/4-inch between opposite exterior walls, unless otherwise called for on the Drawings.
- D. Slabs Under Floor Covering:
  - 1. After wood floating and before final set occurs, steel trowel (single steel trowel preferred) with proper tools to provide a dense, hard, uniform surface. Finish hand troweling at edges of slab as required.

2. Concrete floor slabs receiving carpeting, resilient floor covering or other applied finishes shall be free of defects which will show through the covering. However, should such defects occur, correct by grinding or with an overlay of latex mastic, level the floor to meet the above requirements.
3. Inspection:
  - a. Pouring of concrete slabs on grade requiring a vapor barrier not permitted without an inspection and acceptance by Architect prior to pour. Contact Architect in ample time when ready to avoid delay of concrete pour.

**END OF SECTION**

## **RESILIENT FLOORING**

09650

Section 09650

### **PART 1. GENERAL (SAMPLE SUGGESTED SPECIFICATION)**

#### **1.XX QUALITY ASSURANCE**

- A. Standards: Meet requirements of Resilient Floor Covering Institute.
- B. Moisture Tests: Owner will employ services of an Independent Testing Laboratory (ITL) for testing the moisture content of concrete slabs in accordance with requirements of ASTM F 1869-98, Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor using Anhydrous Calcium Chloride.

#### **1.XX PROJECT/SITE CONDITIONS**

- A. Environmental Requirements: Maintain room temperature and humidity levels before, during and after installation as required by flooring manufacturer.

### **PART 3. EXECUTION**

#### **3.XX EXAMINATION**

- A. Verify that concrete slab over vapor barrier meets moisture tests.
- B. Verify that finish floor tolerances meet requirements shown in Section 03300 Concrete.
- C. Do not proceed with installation until verifications indicate requirements are met.
- D. Notify Architect if verifications indicated non-compliance with Contract Documents.

**END OF SECTION**

## CARPET

09680

Section 09680

### **PART 1. GENERAL (SAMPLE SUGGESTED SPECIFICATION)**

#### **1.XX QUALITY ASSURANCE**

- A. Standards: Meet requirements of Carpet and Rug Institute.
- B. Moisture Tests: Owner will employ services of an Independent Testing Laboratory (ITL) for testing the moisture content of concrete slabs in accordance with requirements of ASTM F 1869-98, Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor using Anhydrous Calcium Chloride.

#### **1.XX PROJECT/SITE CONDITIONS**

- A. Environmental Requirements: Meet requirements of CRI-104 (Carpet and Rug Institute), Standard for Installation of Commercial Carpet.

### **PART 3. EXECUTION**

#### **3.XX EXAMINATION**

- A. Verify that concrete slab over vapor barrier meets moisture tests.
- B. Verify that finish floor tolerances meet requirements shown in Section 03300 Concrete.
- C. Do not proceed with installation until verifications indicate requirements are met.
- D. Notify Architect if verifications indicated non-compliance with Contract Documents.

**END OF SECTION**

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