

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIAL AND RESEARCH SECTION - STRUCTURAL CONCRETE UNIT**

**STRUCTURAL CONCRETE MIX DESIGN SUBMISSION**

Revision: 05/05/15

Agency Use Only	
Mix ID	SC00--0
Mix Design #	
Approved by	
Approved Date	
Spec Book Year	2011

Concrete class: \_\_\_\_\_  
 Additional Description \_\_\_\_\_  
 Ready Mix Supplier: \_\_\_\_\_  
 Designed By \_\_\_\_\_  
 Design strength \_\_\_\_\_ PSI  
 Mix Design Style: \_\_\_\_\_  
 Agg weight - SSD or Dry: \_\_\_\_\_

Mix designs are valid for a 12 month period from date of approval or unless there is a change in material, material property or design parameter.

**Cement:** \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 701.02 Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Cement Type III:** \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 701.04 Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Blended Cement:** \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 701.06 Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Cement with Slag:** \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 701.07 Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Pozzolan:** \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 725.03(a) Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Fly Ash:** \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 725.03(a) Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Silica Fume:** \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 725.03(b) Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Slag:** \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 725.03(c) Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Water** \_\_\_\_\_ gals \_\_\_\_\_ lb/cy 0.00 cf  
**Air Content Target** \_\_\_\_\_ % 0 cf

**Coarse Aggregate 3/8"** Absorption \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 704.02A Source: \_\_\_\_\_

**Coarse Aggregate 3/4"** Absorption \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 704.02B Source: \_\_\_\_\_

**Coarse Aggregate 1 1/2"** Absorption \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0.00 cf  
 704.02C Source: \_\_\_\_\_

**Fine Aggregate:** Absorption \_\_\_\_\_ Specific Gravity \_\_\_\_\_ lb/cy 0 cf  
 704.01 Source: \_\_\_\_\_ Fineness Modulus \_\_\_\_\_

**Air Entrainment Admixture** Specific Gravity \_\_\_\_\_ oz/cy  
 725.02(b) Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Retarder Admixture:** Specific Gravity \_\_\_\_\_ oz/cwt  
 725.02(c) Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**High Range Water Reducer Admixture:** Specific Gravity \_\_\_\_\_ oz/cwt  
 725.02(h) Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

**Other Admixtures:** Specific Gravity \_\_\_\_\_ | 0.00 cf

Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

Specific Gravity \_\_\_\_\_ | 0.00 cf

Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

Specific Gravity \_\_\_\_\_ | 0.00 cf

Source: \_\_\_\_\_  
 Brand Name: \_\_\_\_\_

TOTAL 0.000 0 lb 27.00 cf

Maximum Water/Cementitious Ratio \_\_\_\_\_  
 Maximum Water (gal/cy) 0.0  
 Slump Min/Max (inch) \_\_\_\_\_ min \_\_\_\_\_ max  
 Air Content Min/Max (%) \_\_\_\_\_ min \_\_\_\_\_ max  
 Design Unit Wt. (lb/cf) 0.00

Notes: