

use precast class

need lab data and break history as specified on pages 52 & 53 of special provisions

REVIEWED By Jim Wild at 10:51 am, May 19, 2015

MATERIAL AGENCY USE ONLY
STRUCTURAL CONCRETE UNIT
SIGN SUBMISSION

Agency Use Only	
Mix ID	HP00-A-0
Mix Design #	
Approved by	
Approved Date	
Spec Book Year	2011

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.

Concrete class: HPC A
 Additional Description _____
 Ready Mix Supplier: CARROLL CONCRETE - W LEBANON, NH - RT 12A
 Designed By: Scott Jordan
 Design strength: 5000 PSI
 Mix Design Style: Conventional
 Agg weight - SSD or Dry: SSD

Cement: 701.02 Source: _____ Specific Gravity _____ lb/cy 0.00 cf
 Brand Name: _____

Cement Type III: 701.04 Source: _____ Specific Gravity _____ lb/cy 0.00 cf
 Brand Name: _____

Blended Cement: 701.06 Source: LAFARGE - TERCEM - MONTREAL, EAST PLANT Specific Gravity 2.980 660 lb/cy 3.55 cf
 Brand Name: _____

Cement with Slag: 701.07 Source: _____ Specific Gravity _____ lb/cy 0.00 cf
 Brand Name: _____

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

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

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

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

Water 32 gals 267.04 lb/cy 4.28 cf
Air Content Target 7.0 % 1.89 cf
Coarse Aggregate 3/8" Absorption _____ Specific Gravity _____ lb/cy 0.00 cf
 704.02A Source: _____

Coarse Aggregate 3/4" Absorption 0.70 Specific Gravity 2.930 1769 lb/cy 9.68 cf
 704.02B Source: LEBANON CRUSHED STONE - W LEBANON, NH

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

Fine Aggregate: 704.01 Source: LEBANON CRUSHED STONE - W LEBANON, N Absorption 1.40 Specific Gravity 2.700 1280 lb/cy 7.60 cf
 Fineness Modulus 2.78

Air Entrainment Admixture 725.02(b) Source: MASTER BUILDERS INC - MESQUITE, TX Specific Gravity _____ 1 oz/cy
 Brand Name: MasterAir AE 200/MicroAir

Retarder Admixture: 725.02(c) Source: MASTER BUILDERS INC - MESQUITE, TX Specific Gravity _____ 0.5 oz/cwt
 Brand Name: MasterSet R100

High Range Water Reducer Admixture: 725.02(h) Source: MASTER BUILDERS INC - MESQUITE, TX Specific Gravity _____ 4 oz/cwt
 Brand Name: MasterGlenium 7500

Other Admixtures: Source: _____ Specific Gravity _____ gal/cy 0.00 cf
 Brand Name: _____

Specific Gravity _____ oz/cwt 0.00 cf
 Specific Gravity _____ 0.00 cf

CK'D BY JW OK'D BY _____
 May 7, 2015

RESUBMIT Yes Rejected _____
 BY KH DATE 05/19/2015

TOTAL 47.610 3976 lb 27.00 cf
 Maximum Water/Cementitious Ratio 0.42
 Maximum Water (gal/cy) 33.5
 Slump Min/Max (inch) 4.0 min 8.0 max
 Air Content Min/Max (%) 5.0 min 9.0 max
 Design Unit Wt. (lb/cf) 147.26

Notes:

Contractor fabricated precast concrete structures, 2015 Construction season, 2-24-15