U.S. Department of Transportation
Federal Highway Administration
Federal Lands Highway Office

MINOR PORTLAND CEMENT CONCRETE MIX DESIGN

Project: _____ Date: _____

Contractor: _____

Concrete producer: _____ Producer Mix designation: _____

Concrete for: _____

MIXTURE PROPORTIONS

Material	Specific Gravity	Mass lb/yd³	Absolute Volume ft³	Tolerance % (±)
Cement (Portland or Blended)				1
Supplementary Cementitious Material				
Select				1
Select				1
Water	1.000			1
Coarse aggregate 1 (SSD)				2
Coarse aggregate 2 (SSD)				2
Fine aggregate (SSD)				2
Fibers				3
Color Pigments				3
Other				
Total air				
Theoretical unit mass:			Total	

Admixtures	Dosage fl oz/yd³ Do not enter oz/cwt
Air entraining	
Type A (Water Reducer -WR)	
Type B (Set Retarder - SR)	
Type C (Set Accelerator - SA)	
Type D (WR & SR)	
Type E (WR & SA)	
Type F (High Range WR)	
Type G (High Range WR & SR)	
Hydration Stabilizer (B or D)	
Other	
Other	

☐ Attach coarse and fine aggregate properties including alkali-silica reactivity data.

☐ Attach material certifications for cementitious material, admixtures, and additives.

FRESH CONCRETE PROPERTIES

Water/cementitious materials ratio (by mass) [1] _____

Measured unit mass (AASHTO T 121): _____ lb/ft³

Measured air content (AASHTO T 152 or T 196): _____ %

Measured slump (AASHTO T 119): _____ in

HARDENED CONCRETE PROPERTIES

Specified Compressive strength: 4,000 psi

Compressive strength (28 day): _____ psi

Signature _____ Print Name _____ Date _____

[1] The ratio of the mass of water, exclusive only of that absorbed by the aggregate, to the combined mass of cementitious materials (i.e. cement, fly ash, silica fume and ground granulated blast furnace slag (GGBFS)).

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