

EXAMPLE A

Rev 02/01

Iowa Department Of Transportation
Office Of Materials
PORTLAND CEMENT CONCRETE

Form E820150E

Project No.: F-273(26)10

County : BUCHANAN

Mix No.: C-4WR-C15 Pounds Cement: 593

1st Adjusted lbs. Cement: 504 Source: MONARCH I Sp. Gr.: 3.14

IM 491.17 Fly Ash: 89 Source: LOUISA Sp. Gr.: 2.68

IM 491.14 Slag GGBFS: _____ Source: _____ Sp. Gr.: _____

2nd Adjusted lbs. Cement: 504
Total Cementitious 593

IM T203 Fine Aggregate Source: NIEMAN CONST. HUFFMAN Sp. Gr.: 2.65

IM T203 Interm. Aggregate Source: _____ Sp. Gr.: _____

IM T203 Coarse Agregate Source: NIEMAN CONST. JESSUP Sp. Gr.: 2.63

Basic w/c 0.430 Water (lbs/cy) = Design w/c (wt. cement + wt Fly Ash +Slag) = 255

Max w/c 0.489 Max. Water (lbs/cy) = Design w/c (wt. cement + wt Fly Ash +Slag) = 290

Absolute Volumes	Cement	(lbs/cy) / (Sp. Gr. X 62.4 X 27)	=	<u>0.095</u>
	Fly Ash	(lbs/cy) / (Sp. Gr. X 62.4 X 27)	=	<u>0.020</u>
	Slag	(lbs/cy) / (Sp. Gr. X 62.4 X 27)	=	_____
	Water	(lbs/cy) / (1.00 X 62.4 X 27)	=	<u>0.151</u>
	Air			<u>0.060</u>
		Subtotal	=	<u>0.326</u>
		1.000 - Subtotal	=	<u>0.674</u>
		Total	=	<u>1.000</u>

% FA Agg.: <u>50</u>	Fine Aggregate (1.000 - Subtotal) X % In Mix	=	<u>0.337</u>
% In. Agg.: _____	Interm. Aggregate (1.000 - Subtotal) X % In Mix	=	_____
% CA Agg.: <u>50</u>	Coarse Aggregate (1.000 - Subtotal) X % In Mix	=	<u>0.337</u>
	Aggregate Total	=	<u>0.674</u>

Aggregate Weights	Fine Aggregate (abs vol.) X Sp. Gr. X 62.4 X 27	=	<u>1505</u>
	Intermediate Aggregate (abs vol.) X Sp. Gr. X 62.4 X 27	=	_____
	Coarse Aggregate (abs vol.) X Sp. Gr. X 62.4 X 27	=	<u>1493</u>

Summary	Cement <u>504</u> (lbs/cy)
	Fly Ash <u>89</u> (lbs/cy)
	Slag _____ (lbs/cy)
	Water <u>255</u> (lbs/cy)
	Fine Agg. <u>1505</u> (lbs/cy)
	Interm. Agg. _____ (lbs/cy)
	Coarse Agg. <u>1493</u> (lbs/cy)

Distribution: ___ Materials, ___ DME, ___ Proj. Engr., ___ Contractor