

Iowa Department Of Transportation
Office Of Materials
PORTLAND CEMENT CONCRETE

Project No.: _____

County : _____

Mix No.: _____

Abs Vol. Cement: _____

Type: _____

Cement (IM 401): _____ lbs
%

Source: _____

Sp. Gr.: _____

Fly Ash (IM 491.17): _____

Source: _____

Sp. Gr.: _____

Slag (IM 491.14): _____

Source: _____

Sp. Gr.: _____

Adjusted lbs. Cement: _____

Total Cementitious _____

Total % Replacement = _____

IM T203 Fine Aggregate Source: _____

Sp. Gr.: _____

IM T203 Interm. Aggregate Source: _____

Sp. Gr.: _____

IM T203 Coarse Aggregate Source: _____

Sp. Gr.: _____

Basic w/c _____

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

Max w/c _____

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

Absolute Volumes

Cement (lbs/cy) / (Sp. Gr. X 62.4 X 27) = _____

Fly Ash (lbs/cy) / (Sp. Gr. X 62.4 X 27) = _____

Slag (lbs/cy) / (Sp. Gr. X 62.4 X 27) = _____

Water (lbs/cy) / (1.00 X 62.4 X 27) = _____

Air 0.060

Subtotal = _____

1.000 - Subtotal = _____

Total = 1.000

% FA Agg.: _____

Fine Aggregate (1.000 - Subtotal) X % In Mix = _____

% In. Agg.: _____

Interm. Aggregate (1.000 - Subtotal) X % In Mix = _____

% CA Agg.: _____

Coarse Aggregate (1.000 - Subtotal) X % In Mix = _____

Aggregate Total = _____

Aggregate Weights

Fine Aggregate (abs vol.) X Sp. Gr. X 62.4 X 27 = _____

Intermediate Aggregate (abs vol.) X Sp. Gr. X 62.4 X 27 = _____

Coarse Aggregate (abs vol.) X Sp. Gr. X 62.4 X 27 = _____

Summary

Cement _____ (lbs/cy)

Fly Ash _____ (lbs/cy)

Slag _____ (lbs/cy)

Water _____ (lbs/cy)

Fine Agg. _____ (lbs/cy)

Interm. Agg. _____ (lbs/cy)

Coarse Agg. _____ (lbs/cy)