

## ONE CUBIC YARD BATCH PORTIONS

4000 PSI AT 28 DAYS

4-INCH SLUMP

<b>Material</b>	<b>Volume (cu ft)</b>	<b>Weight (lbs)</b>	<b>Specific Gravity</b>
Air	1.22		
Water	3.88	242	1.00
Cement	2.04	400	3.15
Fly Ash – Class C	0.97	160	2.65
Coarse Agg.	11.22	1876	2.68
Sand	7.68	1256	2.62
Total	27.0	3934	

**Fly ash displaced 164 lbs. or 28.4% of the cement in this mix.**

# **ENVIRONMENTAL BENEFITS<sup>1</sup>**

**≈ 160 lbs of greenhouse gases were not produced**

**≈ 3.5 gallons of oil were not consumed**

**≈ 1 cubic foot of landfill space was not used**

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<sup>1</sup> Using Coal Ash in Highway Construction: A Guide to Benefits and Impacts, EPA-530-K-05-002, April 2005