

# Anchorplex™ System

## STRUCTURAL BACKFILL TECHNICAL DATA



Guideline Specifications		
Target Values	Design In-Place Unit Weight	112 lbs./ft <sup>3</sup> (Min)
	Water-Cement Ratio (W/C)	0.3-0.5
	Aggregate-Cement Ratio (A/C)	4.5:1 - 6:1
	Percent Air Voids	15 - 25%
Cement	Percent Type I Portland Cement*	50% (Min)
	Percent Fly Ash	50% (Max)
Aggregate	Nominal Aggregate Size	3/8" - 3/4"
Admixture	As Needed	

\* For sulfate resistance, use Type II V Portland Cement

Structural Backfill Mix Design Example			
Components	Batch Weight/Cubic Yard	Volume (CY)	Specific Gravity
Type 1 Portland Cement	210 lbs.	0.03957	3.15
Fly Ash	210 lbs.	0.04986	2.50
#6, #8, or #57 Aggregate	2,525 lbs.	0.57202	2.62
Water	166 lbs.	0.09853	1.00
Pozzololith 100x, Retarder	0.5 lbs.		
Air Voids		0.24	
Total	3111.5 lbs.	1	Unit Weight = 115 lbs./ft <sup>3</sup>
			W/C = 0.4
			A/C = 6.0
			Percent Air Voids = 24%

### Structural Backfill Visual Aid



Too much water



Too little water



Proper amount of water