

**121 FLOWABLE FILL – MIX DESIGN.**  
**(REV 1-23-08) (FA 1-24-08) (7-08)**

ARTICLE 121-3 (Page 173) is deleted and the following substituted:

**121-3 Mix Design.**

Flowable Fill is a mixture of portland cement, fly ash, fine aggregate, air entraining admixture and water. Flowable fill contains a low cementitious content for reduced strength development.

Submit mix designs to the Engineer for approval. The following are suggested mix guides for excavatable and non-excavatable flowable fill:

	Excavatable	Non-Excavatable
Cement Type 1	75-100 lb/yd <sup>3</sup>	75-150 lb/yd <sup>3</sup>
Fly Ash	None	150-600 lb/yd <sup>3</sup>
Water	*	*
Air**	5-35%	5-15%
28 Day Compressive Strength**	Maximum 100 psi	Minimum 125 psi
Unit Weight (Wet)**	90-110 lb/ft <sup>3</sup>	100-125 lb/ft <sup>3</sup>

\*Mix designs shall produce a consistency that will result in a flowable self-leveling product at time of placement.  
 \*\*The requirements for percent air, compressive strength and unit weight are for laboratory designs only and are not intended for jobsite acceptance requirements.  
 Fine Aggregate shall be proportioned to yield 1 yd<sup>3</sup>.