

KCMMB Mix Design Approval Checklist

(Read current Specification thoroughly before filling out checklist. Mix must meet Specification requirements, not just this checklist.)

(Circle an option or fill in all grey areas, unless it is not applicable to your mix.)

Mix Designation:	KCMMB 4K		
Supplier:	Concrete Producer		
X	After filling out grey boxes in "Test Value" column, check grey box at left once item is included in your submittal (When filling out this Checklist in EXCEL, some grey boxes at left are automatically checked if Test Value you enter in grey box at right is within Spec. limits)		Spec. Requirement
			Test Value
Coarse Aggregate			
X	1a. Meets AASHTO T103	3/4-3/8<=1.0%	0.5 %
		3/8-#4<=2.0%	0.5 %
X	1b. Meets ASTM C127	Absorption <= .5%	0.5 %
X	1c. Meets ASTM C123 Lightweight Pieces (AASHTO T113)	LWP <= .5%	0.25 %
X	1d. Meets ASTM C142 Clay Lumps and Friable (AASHTO T112)	Deleterious <= .3%	0.1 %
	1e. Meets Coal and Lignite Criterion	Coal and Lignite <= .05%	0 %
	1f. Meets ASTM C117 Material Finer than #200 by Washing	% Passing #200 <= .5%	0 %
X	1g. Meets ASTM C142 Sum of all Deleterious	Total Deleterious <= 1.0%	0.35 %
X	1h. Meets ASTM C88 Magnesium Sulfate Soundness	3/4-3/8<=.5%	0.2 %
		3/8-#4<=4.0%	0.4 %
X	1i. Meets ASTM C131 LA Abrasion	% Loss <= 28.0%	26.3 %
Fine Aggregate			
	2a. Fine Aggregate meets ASTM C33.		
X	2b. Weight of Clay Lumps and Friables	<=.25%	0.25 %
X	2c. Percentage material pass #200 Sieve (by weight)	<=2.0%	0.7 %
X	2d. Percentage of coal and lignite (by weight)	<=.25%	0.2 %
X	2e. Soundness Fine Aggregate (Magnesium Sulfate)	<=15%	8 %
	Fine Aggregate Certification Letter?	Testing Agency?	Tester
Cement/Slag/Pozzolan/Fly Ash			
	Cert. Letter from Supplier showing Cement meets ASTM C595 for Type 1P or 1S?	Testing Agency?	N/A
	3a. <i>Manufactured</i> - Type IS	Type IS (IS) - slag <= 25% of PC and slag mass	N/A %
	3b. <i>Manufactured</i> - Type IP	Type IP (IP) - pozzolan < 25% of PC and pozzolan mass	N/A %
X	3c. <i>Field Mixed</i> - GGBFS	Grade 100 or 120?	Grade 120
	3d. <i>Field Mixed</i> - Type IS	In Type (IS), GGBFS <= 25%	%
	3e. <i>Field Mixed</i> - GGBFS + pozzolans	GGBFS + pozzolans <= 25% of cementitious materials	%
	3f. <i>Field Mixed</i> - Type (IP)	In Type (IP), pozzolans < 15%	%
	3g. <i>Field Mixed</i> - Fly Ash	ASTM C618 Class F, except: Total Alkali < 5lbs	%
		Ignition loss <= 3.0%	%
Air			
	4. Dry cast precast meets requirements of Specification Section 8		N/A
	5a. C1567 - Mortar Bar (IF REQUIRED)	N/A	
	5b. <i>All</i> - C1567 - Mortar Bar Expansion	<=.10% in 16 days	N/A %
Hi-Early			
	6a. Test results passing C1074	Testing Agency?	N/A
	6b. Table of times, cylinder breaks at times, temperature of concrete at times, Time Temperature Factor		
	6c. Maturity Curve		