U.S. Department of Transportation
Federal Highway Administration
Federal Lands Highway

WORKSHEET FOR IGNITION FURNACE BINDER CORRECTION FACTOR AND AGGREGATE GRADATION CORRECTION FACTOR T 308

Project: Date:

Sample No.:   Tested by:

Target binder content, % by mass of Mix: % by mass of Agg: Test temperature, (˚C):

	Trial No. 1		Trial No. 2
(A) Initial "buttered" bowl mass, g			
(B) Final bowl mass[1], g			
(C) Bowl mass difference, (B – A), g			
(D) Dry aggregate mass, g			
(E) Aggregate & binder mass, g			
(F) Binder mass, (E – D), g			
(G) Corrected binder mass, (F – C), g			
(H) Actual binder content by mixture mass, (G / (D + G) * 100), %			
(I) Sample basket assembly mass, g			
(J) Sample basket assembly & mix mass[2], g			
(K) Mix mass[3], (J – I), g			
(L) Ignition furnace binder content, % by mass of mix			
(M) Correction factor, (L – H), %	L1		L2
(N) Average correction factor[4], ((L1 + L2) / 2), %		Average	
(O) Difference in correction factor[5], |L1 – L2|, %		Difference	

[1] Scrape the bowl until the final mass is within ± 0.5 grams of the initial "buttered" mass.

[2] After placing the basket assembly and mix into the ignition furnace verify that the displayed mass and the mass recorded in (J) agree within ± 5 grams.

[3] Be certain to enter (K), the mix mass into the ignition furnace control panel prior to initiating the burn cycle.

[4] If the correction-factor exceeds 1.0%, lower the test temperature to 482 °C and repeat the test. Use the correction factor at 482 °C even if it exceeds 1.0%.

[5] If the difference is greater than ± 0.15 percent, run two more samples and discard the high and low test results.

Remarks:

U.S. Department of Transportation
Federal Highway Administration
Federal Lands Highway

WORKSHEET FOR IGNITION FURNACE BINDER CORRECTION FACTOR AND AGGREGATE GRADATION CORRECTION FACTOR T 308

Project: Date:

Sample No.:   Tested by:

Target binder content, % by mass of Mix: % by mass of Agg: Test temperature, (˚C):

AGGREGATE GRADATION CORRECTION FACTOR (% Passing)

SIEVE SIZE	Trial #1	Trial #2	"blank"	Trial #1 Difference	Trial #2 Difference	Average Difference	Allowable Difference
							±5.0
							±5.0
							±5.0
							±5.0
							±5.0
							±5.0
							±3.0
							±3.0
							±3.0
							±0.5

Remarks: