NorthEast Transportation Training & Certification Program

Soundness of Fine Aggregate Test Report (T 104)

Date/Time:	Lab/Location:	
Weather:	Date Rec'd #:	Random Sample: Yes No
Project:	Lab Login #:	Lot #:
Contract #:	Material ID:	Sublot #:
Contractor:	Material #:	Sample Location:
Pay Item #:	Sample #:	Station:
Source:	Sample Type: QC A-V IA DR Other	Offset:
Plant Type:	Sampled By/Cert. #:	

Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate (T 104)									
Na ₂	SO ₄ Solution Sp.	Gr. 1.151/1.174	1		Temp. °F	-		New Solution:	Yes No
MgS	SO ₄ Solution Sp. (Gr. 1.295/1.308	3		Temp. °F	-		New Solution:	Yes No
Soundness Test of Fine Aggregate; Passing 3/8 in. (9.5 mm) Sieve									
Sieve	Size	(A)	(B)						
(100 g each size	if <u>></u> 5% present)	Original	Original Mass	Mass after	⁻ 1st Soaking	Mass after 2	2nd Soaking	Mass after	3rd Soaking
Passing, in. (mm)	Retained, in. (mm)	% Retained	Oven Dry	Oven dry	2 hr later	Oven Dry	2 hr Later	Oven Dry	2 hr later
3/8 (9.5)	#4 (4.75)								
#4 (4.75)	#8 (2.36)								
#8 (2.36)	#16 (1.18)								
#16 (1.18)	#30 (600 μm)								
#30 (600 μm)	#50 (300 μm)								
300 µm	Pan	enter				(C)	(D)	(E)	(F)
						Mass	Mass	Percent	Mass
Sieve Size		Mass after	r 4th Soaking Mass after 5th Soaking		5th Soaking	Retained	Lost	Loss	% Loss
Passing, in. (mm)	Retained, in. (mm)	Oven Dry	2 hr later	Oven Dry	2 hr later	after Test	(B-C)	(D/B)x100	(AxE)/100
3/8 (9.5)	#4 (4.75)								
#4 (4.75)	#8 (2.36)								
#8 (2.36)	#16 (1.18)								
#16 (1.18)	#30 (600 μm)								
600 µm	300 µm								
% Loss (Sum of F):									

Comments:

Tested by:		Reviewed by:	
Certification #:		Certification #:	
Date:		Date:	
Test Results Within Engineering Limits:	YES	NO	