

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		Temp. °F		New Solution: Yes No
MgSO ₄ Solution Sp. Gr. 1.295/1.308		Temp. °F		New Solution: Yes No

Soundness Test of Fine Aggregate; Passing 3/8 in. (9.5 mm) Sieve

Sieve Size (100 g each size if ≥ 5% present)		(A) Original % Retained	(B) Original Mass Oven Dry	Mass after 1st Soaking		Mass after 2nd Soaking		Mass after 3rd Soaking	
Passing, in. (mm)	Retained, in. (mm)			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) Mass Retained after Test	(D) Mass Lost (B - C)	(E) Percent Loss (D/B)x100	(F) Mass % Loss (Ax E)/100
Sieve Size		Mass after 4th Soaking		Mass after 5th Soaking					
Passing, in. (mm)	Retained, in. (mm)	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)								
600 μm	300 μm								
<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;"> % Loss (Sum of F): </div>									

Comments:			
Tested by:		Reviewed by:	
Certification #:		Certification #:	
Date:		Date:	
Test Results Within Engineering Limits:		YES <input type="checkbox"/>	NO <input type="checkbox"/>