

Issue Date: 01/31/2020

Submittal of 3/8" x No.8 Concrete Aggregate - 2297
ASTM No.8 Aggregate - Caltrans Coarse Aggregate

Pursuant to ASTM C33\C33M-16 and 2015 Caltrans Standard Specifications, the following is submitted:

SAMPLE GRADATION				
Method	CT 202		C136	
	CALTRANS TEST RESULT	CALTRANS LIMITS	ASTM TEST RESULT	ASTM LIMITS
Sieve Size	Percent Passing		Percent Passing	
1/2"	100	100	100	100
3/8"	X=85	70-100	96	85-100
#4	18	0-25	18	10-30
#8	1	0-6	1	0-10
#16	0	---	0	0-5
PAN	0.0	---	0.0	---

TEST NAME	CALTRANS TEST METHOD	CALTRANS TEST RESULT	CALTRANS LIMIT	ASTM TEST METHOD	ASTM TEST RESULT	ASTM LIMIT
SPECIFIC GRAVITY (Dry, Gsb)	CT 207	2.614	---	C127	2.620	---
SPECIFIC GRAVITY (SSD)	CT 207	2.661	---	C127	2.662	---
SOUNDNESS (Na ₂ SO ₄ , %)	CT 214	6.0	0-10	C88	4.9	0-12
-#200 SIEVE (75 um, %)	D1140 ¹	0.2	---	C117	0.2	0-1
LA ABRASION (B, 500, %)	CT 211	20.4	0-45	C131	20.4	0-50
COAL\LIGNITE (%)	---	---	---	C123	0.1	0-0.5
CHERT (%)	---	---	---	C123	2.1	0-3
CLAY LUMPS & FRIABLE PARTICLES (%)	---	---	---	C142	0.5	0-2
ABSORPTION (%)	CT 206	1.8	0-4.2	C127	1.6	---
CLEANNES VALUE (CV, %)	CT 227	94.0	>75	---	---	---
ALKALI-SILICA REACTIVITY (ASR) ²	C1293 ²	NON-REACTIVE	NON-REACTIVE	C1293 ²	NON-REACTIVE	NON-REACTIVE

Notes:

1. ASTM Test Method
2. Per ASTM C33/C33M-16 - This test method is considered to be the most reliable procedure among ASTM test methods for the evaluation of aggregates for alkali-silica reaction and is substituted in lieu of ASTM C227, C289, and C1260. Refer to ASTM C33 Appendix Sections X1.3.1 to X1.3.6. Non-reactive = less than 0.04% length change within the prisms after 12 months.

Expires 12 months from date of issue