



Professional Service Industries, Inc.
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Report No: CTR:05322552-37-C1

Issue No: 3

This report replaces all previous issues of this report signed on 04/06/2023

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Concrete Test Report

Client: TWIN STAR ENERGY
7671 SHAFFER PARKWAY
LITTLETON, CO 80127

CC: DAVE BLACK
JESSE YURAN
SATISH CHANDER

Project: 7-ELEVEN 12181 SLICEROO
PARKER, CO



Approved Signatory: Thomas Buck (Senior Technician)
Date of Issue: 4/27/2023

Mix Data

Supplier: Aggregate Industries
Plant:
Mix Identification:
Specified Design Strength (psi): 4500 at age 28 days

Sample Details

Date Sampled: 03/29/23	Date Received: 03/30/23	Specification: Mix Design
General Location: south sidewalk		
Sample Location: At entryway		
Curing Method: One day Field/Laboratory Cure		
Field Sample No.: C1	Initial Cure Temp (°F) High:	
	Low:	
Contractor: Pioneer Group		
Ticket no.:	Truck No.:	
Sampled By: Francisco Boyer		
Weather: Clear, windy, dry		

Slump (in):	ASTM C 143	5	Measured Specified 3.00 to 5.00
Slump w/ plasticizer (in):		N/A	
Air Temp (°F):		50	
Concrete Temp (°F):	ASTM C 1064	66	
Air Content (%):	ASTM C 231	6.8	5.0 to 8.0
Unit Weight (pcf):	ASTM C 138	141.2	145.1
Volume of Density Measure (ft³):		N/A	
Batch Size (yd³): 10.0	Time Batched:		09:06
Yd³ Placed: 10.0	Time Sampled:		09:50
Water Added (gal) Before:	Time Placed:		10:30
After:	Time in Truck (mins):		84

Compressive Strength of Concrete Cylinders ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	Tested By
05322552-37-C11	04/05/23	7	4.01	8.02	12.63	U	49460	5 SC	3920	Gary Lutz
05322552-37-C12	04/26/23	28	4.01	8.01	12.63	U	63140	5 SC	5000	Tadd Hajek
05322552-37-C13	04/26/23	28	4.01	8.01	12.63	U	58760	5 SC	4650	Tadd Hajek
05322552-37-C14	04/26/23	28	4.01	8.01	12.63	U	59110	2 SC	4680	Tadd Hajek
05322552-37-C15		Hold				U		SC		
Average 28 Day Compressive Strength (psi)									4780	
Required Strength (psi)									4500	

Notes Remarks

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping B=Bonded ASTM C 617, U=Unbonded ASTM C 1231, C = Combined, G = Ground
Sampled from Revolving Drum Truck Mixer (ASTM C 172, 5.2.3)

Fracture Type / Remarks: 2 = Vert crack/ cone opposite end; C1314: Cone & Shear, 5 = Side fracture-opposite ends; C1314: Semi-Conical Break, SC = Condition Satisfactory upon retrieval.