

Compressive Strength of Concrete

Test Method: ASTM C 39

Report Date: 08/28/2024

Sample: 447314

Alpha Omega Geotech, Inc

1701 State Avenue
Kansas City, KS 66102
Phone: 913-371-0000

Client:

Tailor Made Exteriors
1610 SE Hamblen Rd
Lee's Summit, MO 64081

Project:

230445
TM Fieldhouse
1600 SE Hamblen Rd
Lees Summit, MO 64081

Sample Details

Set #:	20	Technician:	Zaii Graves	Batched:	05:05 CDT
Specimen Size:	4" X 8"	Cast By:	Zaii Graves	Sampled:	05:35 CDT
Specimens In Set:	5	Date Cast:	07/26/24	Cast:	05:50 CDT
Truck / Ticket #:	453 / 1010436	Sampled From:	Chute	Truck Empty:	
Contractor:	Secon Construction	Placement Method:	Pump	Placement Time:	

Location

Placement Location:	Building Interior - Slab on Grade
Location Details:	Concessions stand at (5.5-11)-(C-D). (11-15.5)-(D-E).
Sample Location / Notes:	Sampled from SE corner at E@15.5

Batch Log

Supplier:	Geiger	Mix Design:	P4UC540V445	Strength:	4000 (psi)
Plant:	Lee's Summit			Slump:	3 - 5 (in)
On-Site Admixtures:	None				

Specifications

Field Measurements

Weather:	Sunny	Slump (in):	4-1/2 (ASTM C143)	Plastic Unit Weight:	
Air Temperature (F):	69	Concrete Temp (F):	81 (ASTM C1064)	Air Content:	2.5 (ASTM C231)
				Load Volume:	10.00 (yd³)

Lab Test Results

Testing Lab: Alpha Omega Geotech, 1701 State Ave, Kansas City, KS, 66102										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
20-1	7	08/02/24	1 / 6	4.00	12.57	64,270	5,110	3		N
20-2	28	08/23/24	1 / 27	4.00	12.57	81,420	6,480	3		N
20-3	28	08/23/24	1 / 27	4.00	12.57	81,620	6,490	3		N
20-4	28	08/23/24	1 / 27	4.00	12.57	84,950	6,760	2		N
20-5	56 H	09/20/24	1 / 55							

Test Age Average Strengths (psi): 7 Day - 5110, 28 Day - 6580

Capping Methods

Tested By: Marquis Gaston (1,2,3,4)	N: Neoprene
Checked In : 07/27/2024 (1,2,3,4,5)	

