



# Compressive Strength of Concrete

Test Method: ASTM C 39

Report Date: 09/13/2022

Sample: 12367

## Cole Garner Geotechnical

1070 West 124th Ave  
Suite 300  
Westminster, CO 80234  
Phone: 303.996.2999

## Client:

KB Home Colorado Inc.  
7807 East Peakview Avenue, Suite 300  
Centennial, CO 80111

## Project:

22.23.025  
Trails at Crowfoot F16  
Scarlet Sage & Bayou Gulch Rd  
Parker, CO

### Sample Details

<b>Set #:</b>	14	<b>Technician:</b>	Bill Garrity	<b>Batched:</b>	07:31 MDT
<b>Specimen Size:</b>	4" X 8"	<b>Cast By:</b>	Bill Garrity	<b>Sampled:</b>	08:30 MDT
<b>Specimens In Set:</b>	5	<b>Date Cast:</b>	08/12/22	<b>Cast:</b>	08:45 MDT
<b>Truck / Ticket #:</b>	1769 / 21064597	<b>Sampled From:</b>	Chute	<b>Truck Empty:</b>	
<b>Contractor:</b>	PEI	<b>Placement Method:</b>	Chute	<b>Placement Time:</b>	

### Location

<b>Placement Location:</b>	30 - Concrete Paving
<b>Location Details:</b>	Crossspan from Alpine Lily Trail to Birds Foot Avenue
<b>Sample Location / Notes:</b>	Sampled at east end of crossspan

### Batch Log

<b>Supplier:</b>	SRM Concrete	<b>Mix Design:</b>	CD4570	<b>Strength:</b>	4500 (psi)
<b>On-Site Admixtures:</b>	5.00 Gal Water (10.0 yd <sup>3</sup> )			<b>Air:</b>	5 - 8 (%)
				<b>Slump:</b>	1 - 4 (in)

### Specifications

### Field Measurements

<b>Weather:</b>	Sunny	<b>Slump (in):</b>	3-3/4 (ASTM C143)	<b>Plastic Unit Weight:</b>	144.2 (lb/ft <sup>3</sup> ) (ASTM C138)
<b>Air Temperature (F):</b>	74	<b>Concrete Temp (F):</b>	81 (ASTM C1064)	<b>Air Content:</b>	6.6 (ASTM C231)
				<b>Load Volume:</b>	10.00 (yd <sup>3</sup> )

### Lab Test Results

Testing Lab: Cole Garner Westminster, 1070 W 124th Avenue, Suite 300, Westminster, CO, 80234

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in <sup>2</sup> )	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
14-1	7	08/19/22	1 / 6	4.00	12.57	75,170	5,980	5		N
14-2	28	09/09/22	1 / 27	4.00	12.57	77,490	6,170	5	PS	N
14-3	28	09/09/22	1 / 27	4.00	12.57	79,660	6,340	5	PS	N
14-4	28	09/09/22	1 / 27	4.00	12.57	76,970	6,120	5	PS	N
14-5	28 H	09/09/22	1 / 27							

Test Age Average Strengths (psi): 7 Day - 5980, 28 Day - 6210

### Capping Methods

<b>PS:</b> The break result meets or exceeds 100% of the required strength.	<b>N:</b> Unbonded Caps (ASTM C1231)
<b>Tested By:</b> Joel Meyer (1,2,3,4,5)	
<b>Checked In :</b> 08/13/2022 (1,2,3,4,5)	

