

# Compressive Strength of Concrete

Test Method: ASTM C 39

Report Date: 06/19/2025

Sample: 449791

## Alpha Omega Geotech, Inc

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

## Client:

Koehn Building Systems  
8137 SE County Rd 105 PO BOX 180  
Rich Hill, MO 64779

## Project:

250368  
Midwest Avionics Hangar  
2525 NE Douglas St  
Lee's Summit, MO 64064

## Sample Details

<b>Set #:</b>	1	<b>Technician:</b>	Tavita Ploetz	<b>Batched:</b>	12:45 CDT
<b>Specimen Size:</b>	4" X 8"	<b>Cast By:</b>	Tavita Ploetz	<b>Sampled:</b>	13:00 CDT
<b>Specimens In Set:</b>	5	<b>Date Cast:</b>	06/11/25	<b>Cast:</b>	13:15 CDT
<b>Truck / Ticket #:</b>	9020 / ET-6M-004781-294852	<b>Sampled From:</b>	Chute	<b>Truck Empty:</b>	13:20 CDT
<b>Contractor:</b>	Koehn Buildings	<b>Placement Method:</b>	Chute	<b>Placement Time:</b>	35 (min)

## Location

<b>Placement Location:</b>	Building Interior - Footing
<b>Location Details:</b>	Gridlines A-A.5 through 1-2.75 footing and piers
<b>Sample Location / Notes:</b>	Gridlines A-A.5 through 1-2.75

## Batch Log

<b>Supplier:</b>	6M Concrete	<b>Mix Design:</b>	Rock: 21057, Sand: 15437, Water 249
<b>Plant:</b>	N/A Truck Mixer(mixed on site)		Cement: 5873, Add Mix 1: 64, Add Mix 2: 579
<b>On-Site Admixtures:</b> None			

## Specifications

**Strength:** 3000 (psi)

## Field Measurements

<b>Weather:</b>	Sunny	<b>Slump (in):</b>	4 (ASTM C143)	<b>Plastic Unit Weight:</b>	
<b>Air Temperature (F):</b>	89	<b>Concrete Temp (F):</b>	82 (ASTM C1064)	<b>Air Content:</b>	6.0 (ASTM C231)
				<b>Load Volume:</b>	11.54 (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
1-1	7	06/18/25	1 / 6	4.00	12.57	45,920	3,650	2		N
1-2	28	07/09/25	1 / 27							
1-3	28	07/09/25	1 / 27							
1-4	28	07/09/25	1 / 27							
1-5	56 H	08/06/25	1 / 55							

**Test Age Average Strengths (psi):** 7 Day - 3650

## Capping Methods

<b>Tested By:</b> Marquis Gaston (1)	<b>N:</b> Neoprene
<b>Checked In :</b> 06/12/2025 (1,2,3,4,5)	

## General Remarks

**This was mixed on site in the chute of the truck, a special kind of truck that mixed the concrete in the chute**



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



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## Attachments

Sample #	Name	Description
449791	IMG_7745.jpeg	
449791	IMG_7743.jpeg	
449791	IMG_7747.jpeg	
449791	IMG_7746.jpeg	

Reviewed by: William Connelly

06/19/2025

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