



Riner Engineering, Inc.  
4641 Kennedy Commerce Drive  
Houston, TX 77032  
Phone: (281) 469-3347

Project Number : 22-0642  
Test Date: 10/31/2022  
Report Date: 12/30/2022  
Report Number: 89

## CONCRETE COMPRESSIVE STRENGTH TEST

**Client:** Moody Ramin  
3003 W. Alabama St.  
Houston, TX 77098

**Project:** Town Centre Two  
700 Town and Country Boulevard  
Houston, TX 77024

### Specifications

<b>Concrete Supplier:</b>	Cemex	<b>Test Method:</b>	ASTM C-172
<b>Concrete Plant:</b>	4367A		ASTM C-31
			ASTM C-143
<b>Age (days)</b>	<b>Required Strength (psi)</b>		ASTM C-231
28	7000		ASTM C-1064
			ASTM C-1231
<b>Required Slump (in):</b>	6 to 8		ASTM C-39
<b>Required Air (%):</b>	0 to 3		

### Project Data

<b>Suppliers Mix Number:</b>	1458506	<b>Truck Number:</b>	10067954
<b>Time Sampled:</b>	9:19 AM	<b>Ticket Number:</b>	47366792
<b>Batch Time:</b>	7:40 AM	<b>Air Content (%):</b>	1.8
<b>Date Cylinders Received:</b>	11/1/2022	<b>Date Cylinders Cast:</b>	10/31/2022
<b>Air Temperature (°F):</b>	63	<b>Unit Weight (pcf):</b>	
<b>Concrete Temperature (°F):</b>	69	<b>Measured Slump (in):</b>	8.00
<b>Contractor Made Cylinders:</b>	No	<b>Water Added at Site (gal):</b>	0
<b>Sample Location:</b>	Same as Overall Placement	<b>Weather:</b>	Clear
<b>Total Yards of Concrete Placed</b>	10	<b>M&amp;TE:</b>	61
<b>Overall Placement Location:</b>	Building; Level 1, Columns - D/1, H/3 and H/4		

### Report of Tests

Cylinder Set-Number	Test Date	Age (days)	Diameter (inches)	Area (sq. in.)	Maximum Load (lbs. force)	Compressive Strength (psi)	Fracture Type
1-1	11/07/2022	7	6.00	28.27	244840	8660	3
1-2	11/28/2022	28	6.00	28.27	277740	9820	4
1-3	11/28/2022	28	6.00	28.27	277080	9800	4
1-4	12/26/2022	56	6.00	28.27	317150	11220	5
<b>Average @ 28 days-</b>						<b>9810</b>	

**Break test results on this page meet project specification.**

Riner Engineering, Inc. - Texas Board of Professional Engineers Firm Registration No. F-17076

LIMITATIONS: The test results presented herein were prepared based upon the specific samples provided for testing. Measurement uncertainty is not taken into account by RINER when issuing statements of conformity as to whether tested items pass or fail specified values (ISO 17025-17, 7.1.3). We assume no responsibility for variation in quality (composition, appearance, performance, etc.) or any other feature of similar subject matter provided by persons or conditions over which we have no control. Our letters and reports are for the exclusive use of the clients to whom they are addressed and shall not be reproduced except in full without the written approval of Riner Engineering, Inc.



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**Initial Curing Temperature Min/Max:** 59°F / 79°F  
**Initial Curing Method(s):** Specimens covered with plastic lids  
**Final Curing Method:** Laboratory Moist Cure Room  
**Placement Method(s):** Bucket  
**Sample Method(s):** Back of Truck

**Remarks:**

Riner Engineering, Inc.

**Technician Time:** 08:45 - 11:00

**Technician:** Craig Schoenberg

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Francisco Zea  
CMT Project Manager