

10/8/2024

Roman Cement, LLC  
1475 Princeton Avenue  
Salt Lake City Utah, 84105

## Concrete Compressive Strength

AASHTO: T119, T152, T23, T97, T121, T309, T141

Project No: 3918  
Client Reference No:  
Concrete Supplier:  
Plant: CMT West Valley Lab  
Type Cement: 1L  
Project: Roman Cement Laboratory Services - 3918  
Test Location: CMT West Valley Lab  
Pour Location: CMT West Valley Lab  
Pour Structure: Trial Batch  
Set Id-Barcode: RC97-1  
Specified PSI: 4,000  
Place Method:  
Total Yds in Pour:  
Ticket No:  
Truck No:  
Field Storage:

Date Tested: 9/7/2024  
Pour Date: 9/7/2024  
Contractor:  
Bag Mix: 5.3  
Mix No:

Environmental Cond: Warm 65 - 80

Pour Type:

Air Admix: Yes  
Admixture: Yes  
Pozzolan: Yes  
Hot Water: No  
NaCl: No  
Yds in Load:  
Accum Yds:

Air Content (%): 6.0  
Slump: 4.00  
Concrete Temp F°: 72  
Air Temp F°: 75  
Added Water (gal):  
Unit Weight (lb/ft3): 142.8  
Age Min:

ID	Date Broken	Age	Measured Avg Dia	Area (in2)	Load (lbs)	Strength PSI / MPA	% of SPEC.	Cylinder EndCap	Break Type	CC*	Broken By	
RC97-1-3-A	9/10/2024	3	4.00	12.57	48,620	3,870	26.7	96.7	Neoprene	4	G	David Mikesell
RC97-1-7-B	9/14/2024	7	4.00	12.57	55,380	4,410	30.4	110.2	Neoprene	4	G	David Mikesell
RC97-1-28-C	10/5/2024	28	4.00	12.57	67,470	5,370	37.0	134.2	Neoprene	2	G	David Mikesell
RC97-1-28-D	10/5/2024	28	4.00	12.57	67,600	5,380	37.1	134.5	Neoprene	2	G	David Mikesell
RC97-1-28-E	10/5/2024	28	4.00	12.57	67,940	5,410	37.3	135.2	Neoprene	2	G	David Mikesell

FC = Field Cure Average 28 Day Strength: 5,380

1 = Cone/Cone; 2 = Cone Split/Cone Vertical; - Cone Shear; 3 = Columnar/Columnar; 4 = Shear/Diagonal; 5 = Edge Fracture; 6 = Two Edge Fracture  
Cylinder End Cap Preparation: Sulfur = ASTM C617, Neoprene = ASTM C1231  
\*Cylinder Condition: G = Good, F = Fair, P = Poor, D = Damaged

Remarks: See mix design for additional information.

Field Technician: Kurtis A  
Digital Signature By User Login

Manager: Belinda Torres  
Title: Laboratory Manager  
Digital Signature By User Login

Test results relate only to the sample tested. This test report shall not be reproduced, except in full, without the prior written approval of CMT West Valley Main Office - (801)908-5859.

Lab Address: 2688 S. Redwood Rd. Suite E,F,G,H West Valley City Utah, 84119  
System Link: <http://cmt-data.com/assignments/DD166ED1-E346-47D9-3851-428AAF0AA0B0>  
System Path: Roman Cement Laboratory Services - 3918 / CONCRETE / 3918 ConcTestSet KK09/07/2024

10/8/2024

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AASHTO: T119, T152, T23, T97, T121, T309, T141

Project No: 3918  
Client Reference No:  
Concrete Supplier:  
Plant: CMT West Valley Lab  
Type Cement: 1L  
Project: Roman Cement Laboratory Services - 3918  
Test Location: CMT West Valley Lab  
Pour Location: CMT West Valley Lab  
Pour Structure: Trial Batch  
Set Id-Barcode: RC97-2  
Specified PSI: 4,000  
Place Method:  
Total Yds in Pour:  
Ticket No:  
Truck No:  
Field Storage:

Date Tested: 9/7/2024  
Pour Date: 9/7/2024  
Contractor:  
Bag Mix: 6.5  
Mix No:

Environmental Cond: Warm 65 - 80

Pour Type:  
Air Content (%): 5.5  
Slump: 4.00  
Concrete Temp F°: 72  
Air Temp F°: 75  
Added Water (gal):  
Unit Weight (lb/ft3): 138.8  
Age Min:

Air Admix: Yes  
Admixture: Yes  
Pozzolan: Yes  
Hot Water: No  
NaCl: No  
Yds in Load:  
Accum Yds:

ID	Date Broken	Age	Measured Avg Dia	Area (in2)	Load (lbs)	Strength PSI / MPA	% of SPEC.	Cylinder EndCap	Break Type	CC*	Broken By	
RC97-2-3-A	9/10/2024	3	4.00	12.57	38,140	3,040	20.9	75.9	Neoprene	4	G	David Mikesell
RC97-2-7-B	9/14/2024	7	4.00	12.57	57,030	4,540	31.3	113.5	Neoprene	4	G	David Mikesell
RC97-2-28-C	10/5/2024	28	4.00	12.57	61,500	4,890	33.7	122.4	Neoprene	2	G	David Mikesell
RC97-2-28-D	10/5/2024	28	4.00	12.57	59,360	4,720	32.6	118.1	Neoprene	2	G	David Mikesell
RC97-2-28-E	10/5/2024	28	4.00	12.57	62,120	4,940	34.1	123.6	Neoprene	2	G	David Mikesell

FC = Field Cure Average 28 Day Strength: 4,850

1 = Cone/Cone; 2 = Cone Split/Cone Vertical; - Cone Shear; 3 = Columnar/Columnar; 4 = Shear/Diagonal; 5 = Edge Fracture; 6 = Two Edge Fracture  
Cylinder End Cap Preparation: Sulfur = ASTM C617, Neoprene = ASTM C1231  
\*Cylinder Condition: G = Good, F = Fair, P = Poor, D = Damaged

Remarks: See mix design for additional information.

Field Technician: Kurtis A  
Digital Signature By User Login

Manager: Belinda Torres  
Title: Laboratory Manager  
Digital Signature By User Login

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Lab Address: 2688 S. Redwood Rd. Suite E,F,G,H West Valley City Utah, 84119  
System Link: <http://cmt-data.com/assignments/BEB202F4-380A-49B5-D92E-E57F77C55308>  
System Path: Roman Cement Laboratory Services - 3918 / CONCRETE / 3918 ConcTestSet KK09/07/2024

10/8/2024

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 Salt Lake City Utah, 84105

## Flexural Strength Test

AASHTO: T119, T152, T23, T97, T121, T309, T141

Project No: 3918  
 Client Reference No:  
 Concrete Supplier:  
 Plant: CMT West Valley Lab  
 Type Cement: 1L  
 Project: Roman Cement Laboratory Services - 3918  
 Pour Location: CMT West Valley Lab  
 Pour Structure: Trial Batch  
 Set Id-Barcode: RC97-1  
 Specified PSI: 650  
 Place Method:  
 Total Yds in Pour:  
 Ticket No:  
 Truck No:  
 Field Storage:

Date Tested: 9/7/2024  
 Pour Date: 9/7/2024  
 Contractor:  
 Bag Mix: 5.3  
 Mix No:

Samples were:  
 Pour Type:

Air Content (%): 6.0  
 Slump (in): 4.00  
 Concrete Temp F°: 72  
 Air Temp F°: 75  
 Added Water (gal):  
 Unit Weight (lb/ft3): 142.8  
 Age Min:

Air Admix: Yes  
 Admixture: Yes  
 Pozzolan: Yes  
 Hot Water:  
 NaCl:  
 Yds in Load:  
 Accum Yds:

ID	Date Broken	Age	Depth (in)	Width (in)	Span (in)	Load (lbs)	Strength PSI / MPA	% of SPEC.	SC*	Broken By
RC97-1-28-A	10/5/2024	28	6.00	6.00	18.00	9,250	770 5.30	118.5	G	David Mikesell
RC97-1-28-B	10/5/2024	28	6.00	6.10	18.00	9,350	765 5.25	117.7	G	David Mikesell
RC97-1-28-C	10/5/2024	28	6.05	6.00	18.00	9,040	740 5.10	113.8	G	David Mikesell

FC = Field Cure, INV = Invalid Test      Average 28 Day Strength (psi): 760

1 Cone/Cone; 2 Cone Split/Cone Vertical; - Cone Shear; 4 Shear/Diagonal; 3 Columnar/Columnar; 5 Edge Fracture; 6 Two Edge Fracture.  
 Cylinder End Cap Preparation - Sulfur = ASTM C617; Neoprene = ASTM C1231  
 \*Sample Condition: G = Good, F = Fair, P = Poor, D = Damaged

Remarks: See mix design for additional information.

Technician: Kurtis A  
 Digital Signature By User Login

Manager: Belinda Torres  
 Title: Laboratory Manager  
 Digital Signature By User Login

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 Lab Address: 2688 S. Redwood Rd. Suite E,F,G,H West Valley City Utah, 84119  
 System Link: <http://cmt-data.com/assignments/5FE6F11C-09A2-42C5-79E7-74804D202D59>  
 System Path: Roman Cement Laboratory Services - 3918 / CONCRETE / 3918 ConcBeamSet KA09/07/2024

10/8/2024

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## Flexural Strength Test

AASHTO: T119, T152, T23, T97, T121, T309, T141

Project No: 3918  
 Client Reference No:  
 Concrete Supplier:  
 Plant: CMT West Valley Lab  
 Type Cement: 1L  
 Project: Roman Cement Laboratory Services - 3918  
 Pour Location: CMT West Valley Lab  
 Pour Structure: Trial Batch  
 Set Id-Barcode: RC97-2  
 Specified PSI: 650  
 Place Method:  
 Total Yds in Pour:  
 Ticket No:  
 Truck No:  
 Field Storage:

Date Tested: 9/7/2024  
 Pour Date: 9/7/2024  
 Contractor:  
 Bag Mix: 6.5  
 Mix No:

Samples were:  
 Pour Type:

Air Content (%): 5.5  
 Slump (in): 4.00  
 Concrete Temp F°: 72  
 Air Temp F°: 75  
 Added Water (gal):  
 Unit Weight (lb/ft3): 138.8  
 Age Min:

Air Admix: Yes  
 Admixture: Yes  
 Pozzolan: Yes  
 Hot Water:  
 NaCl:  
 Yds in Load:  
 Accum Yds:

ID	Date Broken	Age	Depth (in)	Width (in)	Span (in)	Load (lbs)	Strength PSI / MPA	% of SPEC.	SC*	Broken By
RC97-2-28-A	10/5/2024	28	6.00	6.00	18.00	8,525	710 4.90	109.2	G	David Mikesell
RC97-2-28-B	10/5/2024	28	6.00	6.10	18.00	8,940	735 5.05	113.1	G	David Mikesell
RC97-2-28-C	10/5/2024	28	6.00	6.00	18.00	8,320	695 4.80	106.9	G	David Mikesell

FC = Field Cure, INV = Invalid Test      Average 28 Day Strength (psi): 715

1 Cone/Cone; 2 Cone Split/Cone Vertical; - Cone Shear; 4 Shear/Diagonal; 3 Columnar/Columnar; 5 Edge Fracture; 6 Two Edge Fracture.  
 Cylinder End Cap Preparation - Sulfur = ASTM C617; Neoprene = ASTM C1231  
 \*Sample Condition: G = Good, F = Fair, P = Poor, D = Damaged

Remarks: See mix design for additional information.

Technician: Kurtis A  
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Manager: Belinda Torres  
 Title: Laboratory Manager  
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 System Link: <http://cmt-data.com/assignments/B436650A-67E8-4492-6CAF-1D71E169A941>  
 System Path: Roman Cement Laboratory Services - 3918 / CONCRETE / 3918 ConcBeamSet KA09/07/2024