

Concrete Strength Testing Checklist

 Show only Checklist

Display Style
Default 

Pre-Testing Preparation

Ensuring proper setup and equipment readiness before commencing testing.

Date of Preparation Check

Time of Preparation Check

Ambient Temperature (°C)



Humidity (%)

Enter a number...

Testing Standard Used

- ASTM C39
- ASTM C469
- EN 12390-3
- Other (Specify)

Project Name

Write something...

Concrete Mix Design No.

Write something...

Equipment Ready?

- Yes
- No

Sample Extraction & Handling

Documenting and correctly handling concrete samples from the pour.

Pour Identification Number/Tag

Enter a number...

Location of Sample Extraction (e.g., Slab #, Column C-3)

Write something...

Number of Cylinders Extracted

Enter a number...

Sample Extraction Method (e.g., Scoop, Trowel)

- Scoop
- Trowel
- Other (Specify)

Notes on Sample Extraction Conditions (e.g., moisture, temperature, slump)

Write something...

Date of Sample Extraction

Enter date...

Time of Sample Extraction

Enter time...

Name/Initials of Person Extracting Samples

Write something...

Cylinder Preparation & Storage

Ensuring proper mold selection, filling, and curing conditions for cylinders.

Number of Cylinders Cast

Enter a number...

Mold Type Used (e.g., Standard, Slim)

- Standard
- Slim
- Other (Specify)

Specifics regarding other mold type (if applicable)

Write something...

Concrete Slump (inches)

Enter a number...

Compaction Factor

Enter a number...

Date of Casting

Enter date...

Notes on Cylinder Preparation (e.g., visual defects, air pockets)

Write something...

Curing Conditions

- Water Curing
- Controlled Temperature
- Ambient Conditions

Curing Temperature (°C)

Enter a number...

Testing Equipment Calibration & Verification

Confirming the accuracy and functionality of compression testing equipment.

Last Calibration Date for Compression Machine

Enter date...

Compression Machine Capacity (kN/lbs)

Enter a number...

Machine Load Increment (kN/lbs)

Enter a number...

Calibration Weight Serial Number(s)

Enter a number...

Calibration Standard Used

- Certified Weight Set
- Pressure Standard
- Other (Specify in LONG_TEXT)

If 'Other' selected above, specify calibration standard:

Write something...

Load Cell Verification Passed?

Yes

No

If Load Cell Verification Failed, describe the issue and corrective action taken:

Write something...

Verification Load Applied (kN/lbs)

Enter a number...

Testing Procedure Execution

Following the standardized testing procedure meticulously.

Cylinder Load at Failure (lbs or kN)

Enter a number...

Maximum Load Achieved (lbs or kN)

Enter a number...

Cylinder Diameter (inches or mm)

Enter a number...

Cylinder Height (inches or mm)

Enter a number...

Strain at Failure (microstrain)

Enter a number...

Loading Rate

- 0.25 in/min
- 0.5 in/min
- 1.0 in/min
- Other - Specify
- Specified by Standard

Observations during Testing (e.g., cracking patterns, failure mode)

Write something...

Direction of Test (if applicable)

- Parallel to Reinforcement
- Perpendicular to Reinforcement
- Not Applicable

Data Recording & Analysis

Accurate recording of results and initial data analysis.

Cylinder Diameter (inches)

Enter a number...

Cylinder Height (inches)

Enter a number...

Maximum Test Load (lbs)

Enter a number...

Breaking Load (lbs)

Enter a number...

Calculated Compressive Strength (psi)

Enter a number...

Average Compressive Strength (psi) - for multiple tests

Enter a number...

Test Method Used (e.g., ASTM C496, ASTM C39)

- ASTM C39
- ASTM C496
- Other (Specify in Long Text)

Notes / Observations (e.g., failure pattern, unusual conditions)

Write something...

Documentation & Reporting

Properly documenting the test and generating a clear, concise report.

Test Number/ID

Enter a number...

Date of Test

Enter date...

Time of Test

Enter time...

Project Name

Write something...

Concrete Mix Design

Write something...

Observations during testing (e.g., cracking, appearance)

Write something...

28-Day Strength (psi/MPa)

Enter a number...

Compliance with Specification?

- Yes
- No
- N/A

Attach Test Certificates/Photos

 Upload File

Tester Signature

Quality Control & Non-Conformance

Identifying and addressing any deviations from established protocols.

Number of Discarded Cylinders (if any)

Enter a number...

Reason for Cylinder Discard (if applicable)

Write something...

Observed Anomalies (e.g., cracking, air pockets)

- None
- Cracking
- Air Pockets
- Surface Defects
- Other (specify in Long Text)

Description of Observed Anomalies (if selected above)

Write something...

Test Result within Specification Limits?

- Yes
- No
- N/A

Explanation of Non-Conformance (if result outside limits)

Write something...

Corrective Actions Taken

- Re-test Sample
- Adjust Mix Design
- Investigate Curing Practices
- Other (specify in Long Text)

Details of Corrective Actions (if selected above)

Write something...

Date of Corrective Action

Enter date...

Signature of Person Verifying Non-Conformance
