



# Concrete Strength Testing Checklist

 Show only Checklist

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## Pre-Testing Preparation

Ensuring proper setup and equipment readiness before commencing testing.

### Date of Preparation Check

Enter date...

### Time of Preparation Check

Enter time...

### Ambient Temperature (°C)

Enter a number...



### 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

## Compression Machine Capacity (kN/lbs)

## Machine Load Increment (kN/lbs)

## Calibration Weight Serial Number(s)

## 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

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