

Concrete Strength Testing Checklist

Pre-Testing Preparation

Ensuring proper setup and equipment readiness before commencing testing.

Date of Preparation Check	
Enter date	
Time of Preparation Check	
Aughieut Tenenegustuus (00)	
Ambient Temperature (°C)	
Enter a number	
Humidity (%)	
Enter a number	
Testing Standard Used	
ASTM C39	
ASTM C469	
■ EN 12390-3	
Other (Specify)	

Write something	
Concrete Mix Design No.	
Write something	
Equipment Ready?	
Yes No	
ample Extraction & Handling cumenting and correctly handling concrete samples from the	pour.
cumenting and correctly handling concrete samples from the	pour.
cumenting and correctly handling concrete samples from the	pour.
Cour Identification Number/Tag Enter a number	pour.
Pour Identification Number/Tag Enter a number	pour.
Coumenting and correctly handling concrete samples from the Pour Identification Number/Tag Enter a number Location of Sample Extraction (e.g., Slab #, Column C-3)	pour.

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 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	
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
esting Procedure Execution
ollowing the standardized testing procedure meticulously.
Cylinder Load at Failure (lbs or kN)
Enter a number

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 m	node)
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	

Enter a number		
Test Method Used (e.g., ASTM C496, ASTM C39)	
ASTM C39		
ASTM C496		
Other (Specify in Lo	ng Text)	
Notes / Observation	ns (e.g., failure pattern, unusual conditions)
Write something		
	on & Reporting he test and generating a clear, concise report	
perly documenting t		
operly documenting t		
Test Number/ID Enter a number		

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	
	1,
Test Result within Specification Limits?	
Yes	
No	
N/A	

Vrite something	
orrective Actions Taken	
Re-test Sample	
Adjust Mix Design	
Investigate Curing Practices	
Other (specify in Long Text)	
Vrite something	
ate of Corrective Action	
Enter date	
gnature of Person Verifying Non-Conformance	