

Concrete Mix Design Verification Checklist

Mix Design Review & Documentation

Verifies the initial mix design documentation, calculations, and assumptions.	
Mix Design Revision Number	
Enter a number	
Date of Mix Design	
Enter date	
Description of Mix Design Intent (e.g., intended use, performance criteria)	
Write something	
	<i>).</i>
Attach Mix Design Calculations	
♣ Upload File	

Design Code Compliance (e.g., ACI, Eurocode) ACI 318 Eurocode 2 Other (Specify)
Design Engineer Name
Write something
Assumptions made in the mix design (e.g., moisture content of aggregates)
Write something
Mix Design Approval Status
☐ Approved
Rejected Pending Review
Material Properties Verification
Confirms the properties of all materials (cement, aggregates, admixtures) used in the mix design.
Cement Type (ASTM)
Enter a number

Enter a number	
Coarse Aggregate Size (mm)	
Enter a number	
Coarse Aggregate SSD (Specific Gravity & Absorption)	
Enter a number	
Fine Aggregate SSD (Specific Gravity & Absorption)	
Enter a number	
Maximum Aggregate Size (mm)	
Enter a number	
Source and Lot Number for Cement	
Write something	
	<i></i>

Admixture Type
Water Reducer
Air Entrainer
Retarder
Accelerator
Superplasticizer
None
Trial Batching & Testing etails the processes and results from trial batches performed to validate the mix design.
Trial Batch Size (Cubic Meters/Yards)
Enter a number
Detailed Mixing Procedure Followed
Write something
Slump (mm/inches)
Enter a number
Air Content (%)
Enter a number

Enter a number	:r	
Compressive	Strength - 28 Days (MPa/psi)	
Enter a number	Yr	
Observations	during Batching & Testing (Workability, Segregation, Bleeding))
Write somethin	ng	
Batch Result Pass Fail	- Pass/Fail	
Supporting T Upload File	est Reports (e.g., Lab Reports)	
•	Workability Assessment ying the slump and overall workability of the concrete mix.	

Enter a number...

Slump (mm/inch) - Second Test	
Enter a number	
Workability Assessment (Visual)	
Excellent	
Good	
☐ Fair	
Poor	
Observations Regarding Workability	
Write something	
Consistency (Visual)	
Too Wet	
Correct	
Too Dry	
Temperature of Concrete (°C/°F)	
Enter a number	
Any Additional Comments on Workability	
Write something	

Strength Testing & Durability Requirements

Covers the compressive strength and other durability tests performed and their results.

Target Compressive Strength (psi/MPa)	
Enter a number	
Age of Strength Test (days)	
Enter a number	
Average Compressive Strength (psi/MPa) - Test 1	
Enter a number	
Average Compressive Strength (psi/MPa)	
Enter a number	
Standard Deviation of Strength Tests	
Enter a number	
Strength Test Result:?	
☐ Fail	
Needs Further Investigation	

Comments/Rema	arks on Strenç	gth Testing	(if any)		
Write something					
Upload Strength	Test Certifica	ates			
4 Upload File					
Durability Test Ro	equired?				
Yes					
☐ No					
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sures the air conte	ent meets spec		ements, if ap	oplicable.	
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Specified Air Cor Enter a number Measured Air Cor	ntent (%)		ements, if a	oplicable.	
Specified Air Cor Enter a number Measured Air Cor Enter a number	ntent (%)		ements, if a	oplicable.	

Air Entrainment Method Vane Test Pressure Meter Other (Specify)
Notes/Observations on Air Entrainment Write something
Acceptance Criteria Met? Yes No
Corrective Actions (If Not Met) Write something
Air Content Test Report Upload File
Write something Air Content Test Report

Confirms the accuracy of admixture dosages and checks for any compatibility issues.

Cement Content (kg/m³)	
Enter a number	

Water Content (kg/m³)	
Enter a number	
Admixture A Dosage (ml/kg of cement)	
Enter a number	
Admixture B Dosage (ml/kg of cement)	
Enter a number	
Admixture Type A Water Reducer Air Entrainer Retarder Superplasticizer Other	
Admixture Type B Water Reducer Air Entrainer Retarder Superplasticizer Other	
Compatibility Test Procedure (if performed) Write something	
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Write something	
Admixture Supplier	
Supplier A Supplier B	
I I Supplier B	
Supplier C Other cord Keeping & Sign-off	d and signed off
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Supplier C Other Cord Keeping & Sign-off rifies that all test results and approvals are properly documente Mix Design Verification Date	d and signed off.

Summary of Verification Findings	
Write something	
Trial Batch Number	
Enter a number	
Upload Test Reports L Upload File	
Verification Status Approved Rejected Requires Revision	
Mix Design Engineer Signature	
Date of Approval	ر
Enter date)