

Formwork Design and Stability Checklist

General Information & Project Details

Basic project information and formwork scope verification.	
Project Name	
Write something	
Project Number	
Write something	
Date of Formwork Design Review Enter date Formwork Design Revision Number	
Enter a number	
Brief Description of Formwork Scope (e.g., walls, slabs, foundations)	
Write something	

Formwork Type (e.g., Concrete, Steel, Composite) Concrete Steel Composite Other
Attach Relevant Project Documents (e.g., Architectural Drawings, Site Plans) 4 Upload File
Designer's Name Write something
Designer's Signature
Design Loads & Calculations /erification of load calculations accounting for all applicable forces.
Concrete Density (kg/m³) Enter a number

Fresh Concrete Unit Weight (kN/m³)	
Enter a number	
Design Loads (kPa)	
Enter a number	
Self-Weight Factor	
Enter a number	
Description of Load Combinations Used	
Write something	
Load Combination Standard Used Eurocode	
ACI	
AS/NZS	
Other	
Load Calculation Spreadsheet	
♣ Upload File	

Wind Pressure (kl	Pa)
Enter a number	
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ormwork iv	laterial Selection & Properties
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	materials are selected and their properties are correctly applied.
suring appropriate	materials are selected and their properties are correctly applied.
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nsuring appropriate Formwork Materia	materials are selected and their properties are correctly applied.

☐ Timber	
Plywood	
Steel	
Composite	
Other	
Material Grade (e.g., Timber Strength)	
Enter a number	
Sheathing Thickness (mm)	
Enter a number	
Material Properties Summary	
Write something	

Timber Treatment (if applicable) Untreated Pressure Treated Borate Treated Other Specific Material Considerations Write something Formwork Geometry & Layout Checks related to the physical dimensions and arrangement of the formwork. Formwork Height (m) Enter a number Formwork Width (m) Enter a number	♣ Upload File	
Untreated Pressure Treated Borate Treated Other Specific Material Considerations Write something Formwork Geometry & Layout Checks related to the physical dimensions and arrangement of the formwork. Formwork Height (m) Enter a number Formwork Width (m) Enter a number		
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Pressure Treated Borate Treated Other Specific Material Considerations Write something Formwork Geometry & Layout Checks related to the physical dimensions and arrangement of the formwork. Formwork Height (m) Enter a number Formwork Width (m) Enter a number		
Borate Treated Other Specific Material Considerations Write something Formwork Geometry & Layout Checks related to the physical dimensions and arrangement of the formwork. Formwork Height (m) Enter a number Formwork Width (m)		
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Enter a number	Formwork Height (m)	
Formwork Length (m)	Enter a number	
Formwork Length (m)	Enter a number Formwork Width (m)	
	Formwork Width (m) Enter a number	
Enter a number	Formwork Width (m) Enter a number	
	Formwork Width (m) Enter a number Formwork Length (m)	

Formwork Type	
☐ Vertical	
Horizontal	
Circular	
Complex	
Description of Complex Geometry (if applicable)	
Write something	
Formwork Layout Drawing Lupload File	
Sheathing Panel Size (Length, m)	
Enter a number	
Sheathing Panel Size (Width, m)	
Enter a number	
Support System Design	
ssessment of supports, including spacing, capacity, and stability.	
Maximum Support Spacing (mm)	
Enter a number	

Enter a number			
Support Type (e.g., Ja	ack, Raking Prop, So	oldier Pile)	
Jack			
Raking Prop			
Soldier Pile Other			
Other			
Justification for Supp	ort Spacing (refere	ncing calculations)	
Write something			
Summant Sustain Cala	latia.na		
Support System Calc	uiations		
4 Upload File			
Minimum Ground Bea	aring Pressure (kPa)		
Enter a number			
Ground Condition As	sessment Method		
Visual Inspection			
Soil Testing			
Cone Penetration Test	(CPT)		

Sheathing & Face Stability

Verification of sheathing thickness, spacing, and face stability to prevent deformation and blow-out.

Sheathing Thickness (mm)	
Enter a number	
Sheathing Spacing (mm) - Center to Center	
Enter a number	
Face Pressure (kPa) - Calculated Maximum	
Enter a number	
Sheathing Material Type	
Plywood	
OSB	
☐ Metal	
Other (Specify in Long Text)	
If 'Other' Sheathing Material, Please Specify:	
Write something	

Sheathing Fixation Method Nails Screws Clips Other (Specify in Long Text)	
If 'Other' Fixation Method, Please Specify: Write something	
Fixation Spacing (mm) - Center to Center Enter a number	
Attach Calculation Showing Face Stability Verification L Upload File	
Tie Rod/Tie Bar Design & Placement Checking the adequacy and positioning of tie rods/bars to resist lateral pressure.	
Tie Rod/Bar Diameter (mm)	
Enter a number	
Tie Rod/Bar Spacing (mm)	
Enter a number	

Tie Rod/Bar Tensile Capacity (kN)
Enter a number
Lateral Pressure on Formwork (kN/m)
Enter a number
Tie Rod/Bar Material Grade
☐ Grade 20 ☐ Grade 40
Grade 50
Other (Specify in LONG_TEXT)
If 'Other' Material Grade selected above, please specify:
Write something
Tie Rod/Bar Connection Method
Welded
Bolted
Other (Specify in LONG_TEXT)
If 'Other' Connection Method selected above, please specify:
Write something

Tie Rod/Bar Connection Details Drawing



Resin/Mortar Joint Considerations

Assessment of joint design and material properties related to resin or mortar usage.

Resin/Mortar Type Specified?
☐ Yes
□ No
☐ Not Applicable
Пиот дригавис
Description of Resin/Mortar Requirements (e.g., compressive strength, workability)
Write something
Specified Compressive Strength (MPa)
Enter a number
Curing Method Specified?
Yes
□ No
☐ Not Applicable

Write something	
Resin/Mortar D	ata Sheets
♣ Upload File	
Joint Filling Pr	ocedure Documented?
Yes	
☐ No	
nterface v	vith Reinforcement & Embedded Items
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Formwork Penetration Method for Reinforcement (e.g., drilled, cut) Drilled Cut Other (Specify)
Notes/Details Regarding Reinforcement Positioning and Formwork Interaction
Write something
Supporting Documentation (e.g., reinforcement schedules, formwork details) 4 Upload File
Was a clash detection performed for reinforcement and formwork? Yes No
If clash detection was performed, describe any clashes resolved and actions taken.
Write something

Constructability & Site Conditions

Considering practical construction aspects and potential site-specific challenges.

Describe site access constraints (e.g., limited crane radius, overhead obstructions).				
Write something				
Potential site hazards to consider (select all that apply):				
Unstable Ground				
Proximity to Existing Structures				
Heavy Traffic				
Adverse Weather Conditions				
Presence of Utilities				
Other (Specify in LONG_TEXT field)				
Maximum allowable formwork overhang beyond supports (meters). Enter a number				
Describe any specific surface preparation requirements for the concrete pour.				
Write something				
Method for handling and placing formwork components (e.g., manual, crane assisted).				
Manual Handling				
Crane Assisted				
Crane Assisted Other (Specify in LONG_TEXT field)				

Enter date	
escribe any spe ibration).	ecific bracing requirements based on site conditions (wind,
Write something	
	Works Drawings & Documentation t drawings, calculations, and specifications.
	n Calculations
Upload File	n Calculations S Drawings (Formwork Layout, Elevations, Sections)
Upload File emporary Work Upload File esign Software	s Drawings (Formwork Layout, Elevations, Sections)
Lesign Software AutoCAD	s Drawings (Formwork Layout, Elevations, Sections)
L Upload File Design Software	s Drawings (Formwork Layout, Elevations, Sections)

Write something
Drawing Revision Number
Enter a number
Date of Last Drawing Revisio
Enter date
Document Review Status
Not Reviewed
Reviewed - Initial
Reviewed - Final
Approved
Reviewer Signature

Regulatory Compliance & Standards

Confirmation of adherence to applicable codes and standards.

Applicable Building Code Version IBC 2018 IBC 2021 Eurocode 2 Local Code
Relevant Standards Applied (Select all that apply) ACI 301-10: Specification for Concrete Construction ACI 118-14: Report on Factors Affecting Concrete Strength EN 12810: Prefabricated concrete elements - Moulds Local Authority Guidelines
Permit Status Approved Pending Approval Not Required
Record of Deviations/Exceptions to Standard Practice Write something
Permit Documentation L Upload File
Revision Number of Design Standards Enter a number

Date of Last Sta	andard Review		
Enter date			