

Retaining Wall Structural Calculation Template

Project Information

Project Name

Location

Date

Wall Geometry

Wall Height (m)

Wall Thickness (m)

Base Width (m)

Stem Width (m)

Soil Properties

Soil Type

Unit Weight (kN/m³)

Angle of Internal Friction (°)

Cohesion (kPa)

Material Properties

Concrete Grade

Steel Grade

Loads

Surcharge Load (kPa)

Seismic Coefficient

Stability Checks

Check	Result	Criteria
Overturning		/ > 1.5
Sliding		/ > 1.5
Bearing Pressure		/ < Allowable

Reinforcement Details

Component	Bar Size	Spacing (mm)	Length (mm)
Stem Vertical			
Stem Horizontal			
Base Main			
Base Distribution			

Additional Notes