

PILED EMBANKMENT / SINKHOLES

CUSTOMER INFORMATION

Company:			
Requested by:			
Tel.:	Fax:	E-mail:	
Project name:			Project N°:
Location:		City / State / Country:	

(*) MACCAFERRI INFORMATION

Originating Office:	
Area Manager:	Project N°:

(*) DESIGN LEVEL

STANDARD REQUIRED

<input type="checkbox"/>	Level 1 (Conceptual Proposal)	<input type="checkbox"/>	Level 2 (Preliminary Suggestion)	<input type="checkbox"/>	Level 3 (Final Design)	<input type="text"/>
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EMBANKMENT PROPERTIES

Embankment height of (H)		m
Soil description		
Soil unit weight (γ_s)		kN/m ³
Internal friction angle (ϕ_s)		°
Cohesion (C_s)		kN/m ²
Embankment slope angle (α)		°

PILES INFORMATION

Max pile spacing (S)		m
Pile type (1 = end bearing, 2 = for friction)		1 or 2
Pile cap size (a)		m

VOID INFORMATION

Void size (D)		m
Void type (1=long., 2=circular/rectangular)		1 or 2
Acceptable surface deformation		1% - 2%

PARTIAL SAFETY FACTORS

If you would like to recommend partial factors, please let us know, writing it in additional remarks.

LOADS

Uniform load on embankment (q)		kN/m
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STRUCTURE CLASSIFICATION

Structure Category	Description	
1	Failure would result in significant damage or risk to life	
2	Failure would result in moderate damage and loss of service	
3	Failure would result in minimal damage and loss of access	
Structure design life		years

(Please tick "✓" the appropriate box)

REINFORCEMENT DATA

Design strain in reinforcement (ϵ)		%
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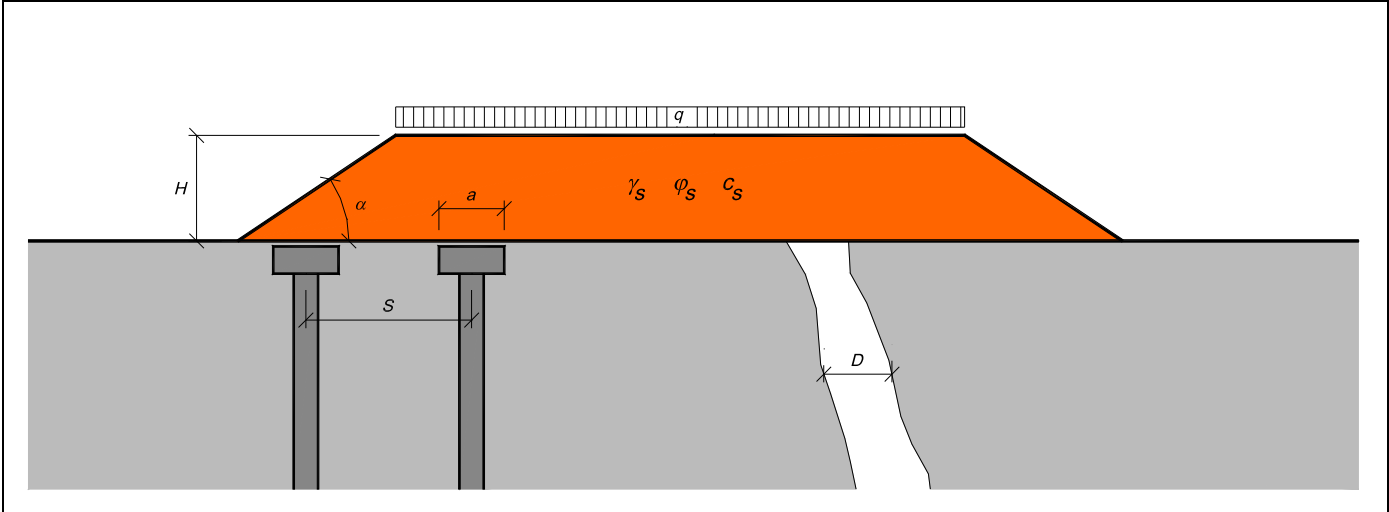
SEISMIC LOAD CONDITION

Horizontal acceleration coefficient	
Vertical acceleration coefficient	

FOUNDATION PROPERTIES

Soil description		
Soil unit weight (γ_s)		kN/m ³
Internal friction angle (ϕ_s)		°
Cohesion (C_s)		kN/m ²
Water table level		m

TYPICAL SECTION



PROJECT DESCRIPTION

(*) MACCAFERRI SUGGESTIONS (AREA MANAGER)

(*) ADDITIONAL INFORMATION

Section to be calculated	Section to be drawn	Only drawing without calculation	Maccaferri specs for drawings	Drawing template	Plan	Elevation	Bill of quantities
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attachments:	File name:
Photos	_____
Site Investigations	_____
Drawings	_____

(*) For Maccaferri use only.

Maccaferri SA (Pty) Ltd

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