

GABION WALL

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

Level 1 (Conceptual Proposal)	Level 2 (Preliminary Suggestion)	Level 3 (Final Design)
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WALL PARAMETERS

Wall height above GL (H)		m
External steps?		Y/N
Wall batter angle (α)		°
Rockfill unit weight (γ_R)		kN/m ³
Gabion porosity		%
Filter cloth behind wall?		Y/N
Filter cloth under wall?		Y/N

LOADS ON WALL

Uniform load (q_g)		kN/m ²
Line load (Q_g)		kN/m
Line load offset (X_g)		m

BRIDGE LOADING

Vertical uniform load underneath bankseat		kN/m ²
Horizontal uniform load underneath bankseat		kN/m ²
Bankseat width		kN

(Please note that the above is for a Gabion bridge abutment only)

SEISMIC LOAD CONDITION

Horizontal acceleration coefficient	
Vertical acceleration coefficient	

LOADS ON BACKFILL

STRETCH	1	2	
Uniform load on stretch (q)			kN/m ²
Line loads (Q)			kN/m
Line loads offset (X)			m

PHREATIC SURFACE

Initial height (W_0)		m
Slope angle stretch 1 (α_{w1})		°
Stretch 1 length (W_{h1})		m
Slope angle stretch 2 (α_{w2})		°
Stretch 2 length (W_{h2})		m

FOUNDATION SOIL

Soil description		
Soil unit weight (γ_s)		kN/m ³
Internal friction angle (ϕ_s)		°
Cohesion (c_s)		kN/m ²
Allowable bearing capacity		kN/m ²
Foundation depth (H_f)		m
Berm width (L_f)		m
Toe slope angle (α_f)		°

BACKFILL SOIL PROPERTIES

Soil description		
Soil unit weight (γ_b)		kN/m ³
Internal friction angle (ϕ_b)		°
Cohesion (c_b)		kN/m ²
Slope profile stretch 1 (α_s)		°
Horizontal distance stretch 1 (L_s)		m
Slope angle stretch 2 (α_s)		°

FOUNDATION ADDITIONAL LAYERS

Layer	f1	f2	
Soil description			
Soil unit weight (γ)			kN/m ³
Internal friction angle (ϕ)			°
Cohesion (c)			kN/m ²
Depth (h)			m
Free water surface max height ($H_{w_{max}}$)			m
Free water surface min height ($H_{w_{min}}$)			m

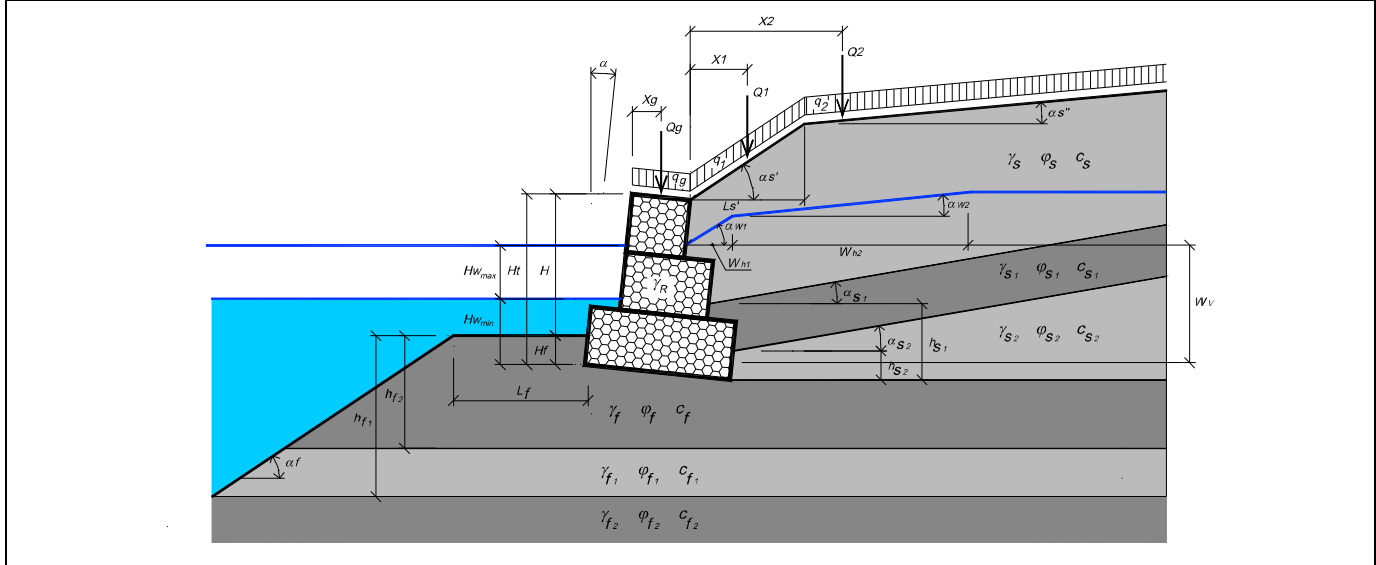
BACKFILL ADDITIONAL LAYERS

Layers	s1	s2	
Soil description			
Soil unit weight (γ)			kN/m ³
Internal friction angle (ϕ)			°
Cohesion (c)			kN/m ²
Layer inclination (α)			°
Initial height (h)			m

SAFETY FACTORS

Global Stability		Sliding		Overturning		Bearing Capacity	
Seismic	No seismic	Seismic	No seismic	Seismic	No seismic	Seismic	No seismic

TYPICAL SECTION



PROJECT DESCRIPTION

RIVER BED PROFILE

<input type="checkbox"/>	Lined section
<input type="checkbox"/>	Reno mattress apron
<input type="checkbox"/>	Sack gabions foundation

(Please tick "✓" the appropriate box)

(*) MACCAFERRI SUGGESTIONS (AREA MANAGER)

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(*) 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"/>	<input type="checkbox"/>	<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

This Design Info Sheet is for static analyses only.
Should hydraulic analysis be required please use the channel protection Design Info Sheet.

Attachments:	File name:
Photos	
Site Investigations	
Drawings	

(*) For Maccaferri use only.

Maccaferri SA (Pty) Ltd

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