

DESIGN INFORMATION SHEET

GABION WALLS



CUSTOMER INFORMATION

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

(*) GEOFABRICS NEW ZEALAND LTD INFORMATION

Company or distributor:	
Requested by:	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="checkbox"/>
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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

SEISMIC LOAD CONDITION

Horizontal acceleration coefficient	
Vertical acceleration coefficient	

PHREATIC SURFACE

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

BACKFILL SOIL PROPERTIES

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

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 Gabion bridge abutment only)

LOADS ON BACKFILL

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

FOUNDATION SOIL

Soil description			
Soil unit weight	(γ_i)		kN/m ³
Internal friction angle	(ϕ_i)		°
Cohesion	(c_i)		kN/m ²
Allowable bearing capacity			kN/m ²
Foundation depth	(H_i)		m
Berm width	(L_i)		m
Toe slope angle	(α_i)		°

FOUNDATION ADDITIONAL LAYERS

Slope angle stretch 2 (α_s')		°
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Layer	f1	f2	
Soil description			
Soil unit weight (γ)			kN/m ³
Internal friction angle (ϕ)			°
Cohesion (c)			kPa
Thickness (h)			m
Free water surface max height (H_{wmax})			m
Free water surface min height (H_{wmin})			m

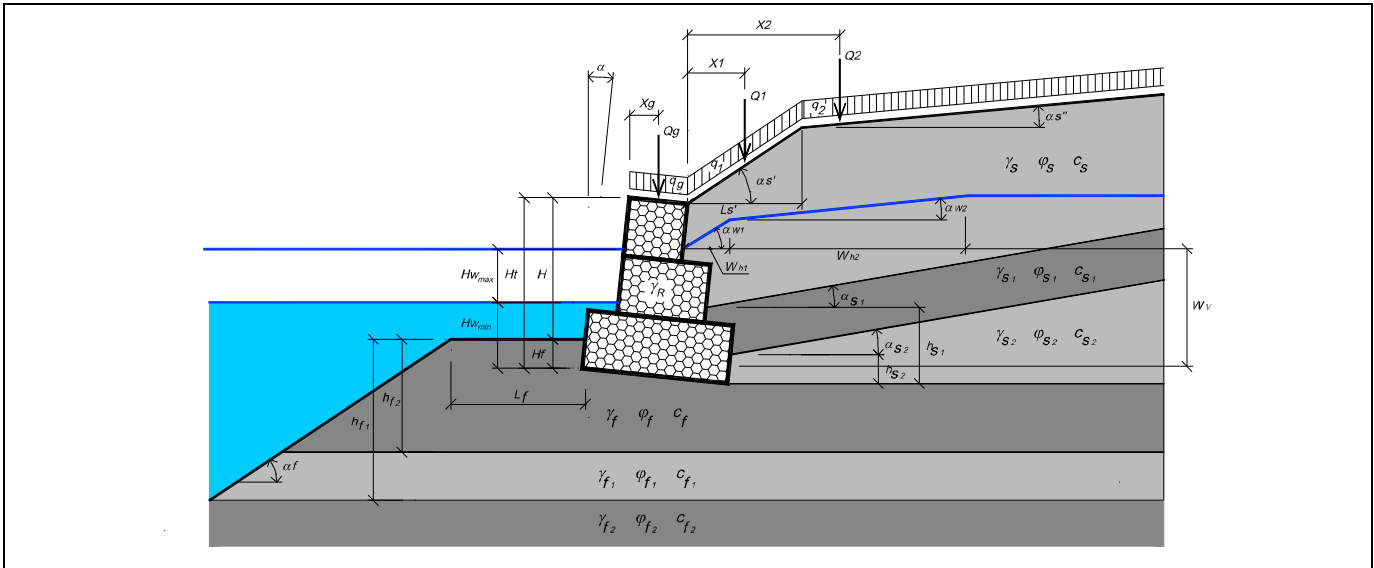
BACKFILL ADITIONAL LAYERS

Layers	s1	s2	
Soil description			
Soil unit weight (γ)			kN/m ³
Internal friction angle (ϕ)			°
Cohesion (c)			kPa
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)

(*) GEOFABRICS NEW ZEALAND LTD SUGGESTIONS (AREA MANAGER)

(*) ADDITIONAL INFORMATION

Section to be calculated	Section to be drawn	Only drawing without calculation	GEOFABRICS NEW ZEALAND LTD 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

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

Attachments:	File name:
Photos	
Site Investigations	
Drawings	

NOTES: (*) For GEOFABRICS NEW ZEALAND LTD use only.