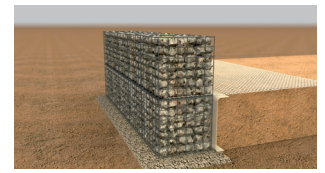


# SECUGRID® REINFORCED GABION WALLS

## ESTIMATING CHARTS (NAUE GABION)



The chart below is for material estimates only. It takes into consideration design principles of British Standard "Code of practice for strengthened/reinforced soils and other fills (BS8006:2010)" and boundary conditions defined in the table below. For a detailed design please consult a qualified engineer.

	Reinforced/Retained Soil: Clay and Silt $\phi = 26^\circ, \gamma = 19 \text{ kN/m}^3$		Reinforced/Retained Soil: Silty/Clayey Sand $\phi = 30^\circ, \gamma = 19 \text{ kN/m}^3$		Reinforced/Retained Soil: Sand and Gravel $\phi = 34^\circ, \gamma = 19 \text{ kN/m}^3$	
	Geogrid layer	Geogrid length L [m]	Geogrid layer	Geogrid length L [m]	Geogrid layer	Geogrid length L [m]
<b>Case 1</b> Wall height H: 3m Inclination: 90° Surcharge load p: 5kPa	1	3	1	3	1	2.5
	2	3	2	3	2	2.5
	3	3	3	3	3	2.5
<b>Case 2</b> Wall Height H: 4m Inclination: 90° Surcharge load p: 5kPa	1	4	1	3.5	1	3
	2	4	2	3.5	2	3
	3	4	3	3.5	3	3
	4	4	4	3.5	4	3
<b>Case 3</b> Wall height H: 5m Inclination: 90° Surcharge load p: 5kPa	1	4.5	1	4.5	1	4
	2	4.5	2	4.5	2	4
	3	4.5	3	4.5	3	4
	4	4.5	4	4.5	4	4
	5	4.5	5	4.5	5	4
<b>Case 4</b> Wall height H: 6m Inclination: 90° Surcharge load p: 5kPa	1	5.5	1	5	1	4.5
	2	5.5	2	5	2	4.5
	3	5.5	3	5	3	4.5
	4	5.5	4	5	4	4.5
	5	5.5	5	5	5	4.5
	6	5.5	6	5	6	4.5

### Additional remarks:

Geogrid layout is based on foundation soil parameters  $\phi = 34^\circ$  and  $\gamma = 19 \text{ kN/m}^3$  for external and global stability analysis.


The estimating chart is valid for the use of Secugrid® PET geogrids manufactured by NAUE GmbH & Co. KG.

The shown geogrid embedment length represents the geogrid type as per the following colour code:

Secugrid® 40/20 R6; Secugrid® 60/20 R6 & Secugrid® 80/20 R6

The documented geogrid layout considers a vertical spacing of the geogrid reinforcement every other course of gabions.

The first installed geogrid layer is placed under the bottom gabion.

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