



Chapter 1 : Gabion retaining wall design assumed parameters

1. Application area:

Retaining wall not immersed:
Retaining wall immersed:
Freestanding wall:
Cladding:

1
2
3
4

Sound barrier:
Erosion control:

5
6

1

2. Soil parameters :

Retained soil :
Backfill :
Foundation soil :
Toe soil :

Density: γ_n

20 kN/m³
20 kN/m³
20 kN/m³
20 kN/m³

Cohesion: c

0 kN/m²
0 kN/m²
0 kN/m²
0 kN/m²

Friction Angle: ϕ

30 °
30 °
30 °
30 °

3. Foundation type :

Natural soil :
Granular foundation :
Concrete :
Stabilised sand :

1
2
3
4

2

4. Surcharge loads :

Unloaded application :
Garden application :
Parking / road light traffic :
Parking / road heavy traffic :
Train bedding :

2 kN/m²
5 kN/m²
10 kN/m²
20 kN/m²
40 kN/m²

1
2
3
4
5

3

5. Windloads :

Location project :

Windspeed: 0 km/h
Windload: 0 kN/m²
Height fence: 0 m

6. Application geotextile :

None:
Behind the gabionwall:
Below the gabionwall:
Behind and below the wall:

1
2
3
4

1

7. Coulomb details :

Inclination: 0 °
Slope: 0 °
Stonefill: 18 kN/m³

8. Retaining wall appearance :

Straight (flush) wall:
Stepped straight wall:
Inclined flush wall:
Inclined stepped wall:

1
2
3
4

1