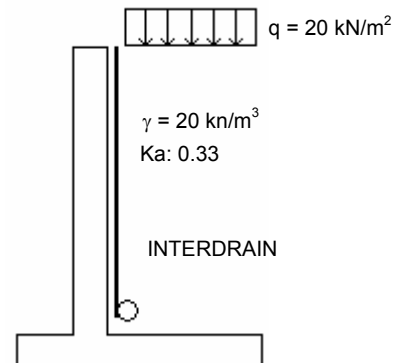


DIMENSIONING INTERDRAIN DRAINAGE GEOCOMPOSITE AS A DRAINAGE SYSTEM FOR BATTER OF STRUCTURES DEPENDING ON THE HEIGHT OF THE EARTH

1. HYPOTHESES

- Density of the ground = $\gamma = 20 \text{ kN/m}^3$
- Traffic overload = $q = 20 \text{ kN/m}^2 = 20 \text{ kPa}$
- Coefficient of active pressure = $K_a = 0.33$
- The INTERDRAIN drainage geocomposite will have a theoretical drainage capacity greater than:

$$q_{\text{INTERDRAIN}} (\sigma ; l = 1) > 1 \text{ l/m}\cdot\text{s}$$



2. DIMENSIONING

h = height of the wall (m)	Pressure (kPa)	GM 412	GM 512	GL 612	GM 712	GMG 512	GLG 612	GMG 712	GMFL 5	GMFL 6	GMFL 7
1	13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	33	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	46	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	59	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	73	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	79	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	86	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	92	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	99	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	106	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	112	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	119	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	125	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19	132	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	139	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	172	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	205	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

This calculation is the result of our revised and corrected knowledge. INTERMAS refuses to accept any responsibility deriving from its use in works schemes and provides it purely for information purposes.