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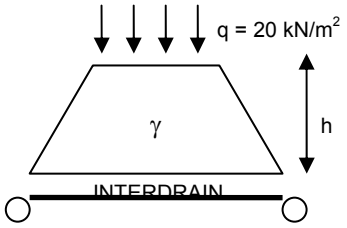
DIMENSIONING INTERDRAIN DRAINAGE GEOCOMPOSITE AS A HORIZONTAL DRAINAGE SYSTEM DEPENDING ON THE HEIGHT OF THE EMBANKMENT

1. HYPOTHESES

- Density of the ground = γ = 20 kN/m^3
- Traffic overload = q = 20 kN/m^2 = 20 kPa
- The INTERDRAIN drainage geocomposite will have a theoretical drainage capacity greater than:
  $q_{INTERDRAIN}(\sigma ; i = 0.05) > 0.1$ l/m·s



2. DIMENSIONING

h = Height of embankment (m)	Pressure (kPa)	GMG 512	GLG 612	GMG 712	GMFL 5	GLFL 6	GMFL 7
1	40	√	√	√	√	√	√
2	60	√	√	√	√	√	√
3	80	√	√	√	√	√	√
4	100	√	√	√	√	√	√
5	120	√	√	√	√	√	√
6	140	√	√	√	√	√	√
7	160	√	√	√	√	√	√
8	180	√	√	√	√	√	√
9	200	√	√	√	√	√	√
10	220	√	√	√	√	√	√
11	240	√	√	√	√	√	√
12	260	√	√	√	√	√	√
13	280	√	√	√	√	√	√
14	300	√	√	√	√	√	√
15	320	√	√	√	√	√	√
16	340		√	√		√	√
17	360		√	√		√	√
18	380		√	√		√	√
19	400			√			√
20	420			√			√
25	520			√			√
30	620			√			√