

# > > > MagnumStone™ Double Deep Gravity Wall Charts

Lower Tier (AASHTO #57) Upper Tier (AASHTO #57)  
 $\phi_{\text{soil}} = 38^\circ$  (min.)  $\phi_{\text{soil}} = 38^\circ$  (min.)  
 $\gamma_{\text{soil}} = 110\text{pcf}$  (max.)  $\gamma_{\text{soil}} = 110\text{pcf}$  (max.)

## No Slope, No Load

H	h1	h2
16' (4877mm)	0' (0mm)	16' (4877mm)
14' (4267mm)	2' (610mm)	12' (3658mm)
12' (3658mm)	5' (1524mm)	7' (2134mm)
10' (3048mm)	8' (2438mm)	3' (914mm)
9' (2134mm)	9' (2134mm)	0' (0mm)

## 2:1 Slope, No Load

H	h1	h2
14' (4267mm)	0' (0mm)	14' (4267mm)
12' (3658mm)	1' (305mm)	11' (3353mm)
10' (3048mm)	4' (1219mm)	6' (1829mm)
8' (2438mm)	6' (1829mm)	2' (610mm)
7' (2134mm)	7' (2134mm)	0' (0mm)

## 3:1 Slope, No Load

H	h1	h2
15' (4572mm)	0' (0mm)	15' (4572mm)
14' (4267mm)	0' (0mm)	14' (4267mm)
12' (3658mm)	3' (914mm)	9' (2743mm)
10' (3048mm)	5' (1524mm)	5' (1524mm)
8' (2438mm)	7' (2134mm)	1' (305mm)
8' (2438mm)	8' (2438mm)	0' (0mm)

## No Slope, 100psf Load

H	h1	h2
16' (4877mm)	0' (0mm)	16' (4877mm)
14' (4267mm)	1' (305mm)	13' (3962mm)
12' (3658mm)	3' (914mm)	9' (2743mm)
10' (3048mm)	6' (1829mm)	5' (1524mm)
8' (2438mm)	7' (2134mm)	1' (305mm)
7' (2134mm)	7' (2134mm)	0' (0mm)

## No Slope, 250psf Load

H	h1	h2
14' (4267mm)	0' (0mm)	14' (4267mm)
12' (3658mm)	1' (305mm)	11' (3353mm)
10' (3048mm)	3' (914mm)	7' (2134mm)
8' (2438mm)	5' (1524mm)	3' (914mm)
6' (1829mm)	6' (1829mm)	0' (0mm)
5' (1524mm)	5' (1524mm)	0' (0mm)

Lower Tier Upper Tier (AASHTO #57)  
 $\phi_{\text{soil}} = 30^\circ$  (min.)  $\phi_{\text{soil}} = 38^\circ$  (min.)  
 $\gamma_{\text{soil}} = 125\text{pcf}$  (max.)  $\gamma_{\text{soil}} = 110\text{pcf}$  (max.)

## No Slope, No Load

H	h1	h2
13' (3962mm)	0' (0mm)	13' (3962mm)
12' (3658mm)	2' (610mm)	10' (3048mm)
10' (3048mm)	4' (1219mm)	6' (1829mm)
8' (2438mm)	6' (1829mm)	3' (914mm)
6' (1829mm)	6' (1829mm)	0' (0mm)

## 2:1 Slope, No Load

H	h1	h2
7' (2134mm)	0' (0mm)	7' (2134mm)
7' (2134mm)	3' (914mm)	4' (1219mm)
6' (1829mm)	4' (1219mm)	2' (610mm)
4' (1219mm)	4' (1219mm)	1' (305mm)
4' (1219mm)	4' (1219mm)	0' (mm)

## 3:1 Slope, No Load

H	h1	h2
10' (3048mm)	0' (0mm)	10' (3048mm)
8' (2438mm)	4' (1219mm)	4' (1219mm)
6' (1829mm)	5' (1524mm)	1' (305mm)
5' (1524mm)	5' (1524mm)	0' (0mm)

## No Slope, 100psf Load

H	h1	h2
11' (3353mm)	0' (0mm)	11' (3353mm)
10' (3048mm)	1' (305mm)	9' (2743mm)
8' (2438mm)	4' (1219mm)	4' (1219mm)
6' (1829mm)	5' (1524mm)	1' (305mm)
5' (1524mm)	5' (1524mm)	0 (0mm)

## No Slope, 250psf Load

H	h1	h2
9' (2743mm)	0' (0mm)	9' (2743mm)
8' (2438mm)	3' (914mm)	5' (1524mm)
6' (1829mm)	4' (1219mm)	2' (610mm)
4' (1219mm)	3' (914mm)	1' (305mm)
3' (914mm)	3' (914mm)	0' (0mm)