

Design Approach 2 (summary)

Verification of resistance

For drained sliding $H_{Ed} = 79.5 \frac{\text{kN}}{\text{m}}$ and $H'_{Rd} = 155.8 \frac{\text{kN}}{\text{m}}$

Degree of utilization $\Delta_{GEO,2} = \frac{H_{Ed}}{H'_{Rd}} = 51\%$ ⑩

For toppling $M_{Ed,dst} = 117.8 \frac{\text{kNm}}{\text{m}}$ and $M_{Ed,stb} = 253.4 \frac{\text{kNm}}{\text{m}}$

Degree of utilization $\Delta_{GEO,2} = \frac{M_{Ed,dst}}{M_{Ed,stb}} = 46\%$

Design is unacceptable if degree of utilization is > 100%

Design Approach 3 (summary)

Verification of resistance

For drained sliding $H_{Ed} = 77.6 \frac{\text{kN}}{\text{m}}$ and $H'_{Rd} = 136.1 \frac{\text{kN}}{\text{m}}$

Degree of utilization $\Delta_{GEO,3} = \frac{H_{Ed}}{H'_{Rd}} = 57\%$ ⑩

For toppling $M_{Ed,dst} = 116.4 \frac{\text{kNm}}{\text{m}}$ and $M_{Ed,stb} = 250.6 \frac{\text{kNm}}{\text{m}}$

Degree of utilization $\Delta_{GEO,3} = \frac{M_{Ed,dst}}{M_{Ed,stb}} = 46\%$

Design is unacceptable if degree of utilization is > 100%