

Correction**Example 7.2, p280**

The text below should replace the published text, starting from “*Stabilising Moments*” (4th last line) to the end of Combination 1 solution (top of p281).

Stabilising Moment

The weight of the wall, R_v is now considered as a permanent, unfavourable action:

$$M_{\text{stb}} = M_{\text{stem}} + M_{\text{base}} + M_{\text{heel}} = (44.2 \times 0.7 + 28.8 \times 1.5 + 173.9 \times 1.95) \times \gamma_{G;\text{dst}} = 557.8 \text{ kNm}$$

$$\text{Lever arm of } R_{v;\text{d}}, x = \frac{557.8 - 165.2}{(246.9 \times 1.35)} = 1.18 \text{ m} \quad (\text{within middle third of base})$$

$$\text{Eccentricity, } e = 1.5 - 1.18 = 0.32 \text{ m}$$

$$\text{Maximum bearing pressure} = \frac{R_v}{B} \left(1 + \frac{6e}{B} \right) = 182.5 \text{ kPa}$$

The GEO limit state requirement for bearing is satisfied and the over-design factor

$$\Gamma = \frac{250}{182.5} = 1.37$$