

2013-2014

7(c)

$$\begin{aligned} V_a &= 100 \times \frac{G_{1mm} - G_{1mb}}{G_{1mm}} \\ &= 100 \times \frac{2.466 - 2.356}{2.466} \\ &= 4.46\% \end{aligned}$$

$$\text{Percent compaction} = \frac{\text{bulk specific gravity of compacted mix (G}_{1mb}\text{)}}{\text{maximum specific gravity of paving mix (G}_{1mm}\text{)}}$$

$$= \frac{2.356}{2.466} \times 100\%$$

$$= 95.54\%$$