

EASTWOOD & PARTNERS

Spion Kop has three exits, one near each end and one at the top. The total width of these three exits at their narrowest points is 12.5m. The guide assumes a maximum flow rate through such exits of 60 persons per minute for each 550mm of width. Thus the theoretical time to discharge 16,000 spectators from Spion Kop would be $11\frac{1}{2}$ minutes, compared with a maximum of 8 minutes indicated by the guide. We do not consider this to be a serious matter. Rapid evacuation (in say 8 minutes) is very desirable for stands where there may be a risk due to fire, or explosion, or structural failure. In the case of terracing it is only the impatience of spectators which might create danger. We believe that for an interim period at least the evacuation time of $11\frac{1}{2}$ minutes should be acceptable.

The exits at each end of the terrace are reasonably free from hazards, except the one at the North end passes under a bridge with a headroom below the recommended value of 8ft. This defect could be removed by lowering the floor level, but we believe it is far from essential to have such a large headroom, and the cost of modification is not justified in an existing structure.

The exit at the back of Spion Kop would benefit from handrails dividing it into lanes. Some remodelling of the approaches to the ramp may also be thought desirable.

(b) The West Terrace (Including Lower Level at North West Corner)

The west terrace has a total area of $1480m^2$ but there are no gangways. We feel that some allowance should