Design Aid 3.12.11 Stadium Riser Allowable Spans

Design chart assumptions
- 10 lb/ft² superimposed DL
- 100 lb/ft² live load
- \( f_c = 6000 \) psi, normal weight
- Midspan step load assumed
- Fundamental natural frequency \( f_c > 3.5 \) Hz under dead load plus 30 lb/ft² vertical live load

Experience has shown that these diagrams are reasonably accurate for tread dimensions from 2 ft 6 in. to 3 ft 0 in.