Two-span continuous	$\sigma_b = \frac{8F'_b}{l^2}\frac{d^2}{6}$	$\sigma_\Delta = \frac{185\Delta E'}{l^4}\frac{d^3}{12}$
Combination simple- and two-span continuous	$\sigma_b = \frac{8F'_b}{l^2}\frac{d^2}{6}$	$\sigma_\Delta = \frac{131\Delta E'}{l^4}\frac{d^3}{12}$
Cantilevered pieces intermixed	$\sigma_b = \frac{20F'_b}{3l^2}\frac{d^2}{6}$	$\sigma_\Delta = \frac{105\Delta E'}{l^4}\frac{d^3}{12}$
Controlled random layup		
Mechanically laminated decking	$\sigma_b = \frac{20F'_b}{3l^2}\frac{d^2}{6}$	$\sigma_\Delta = \frac{100\Delta E'}{l^4}\frac{d^3}{12}$
2-inch decking	$\sigma_b = \frac{20F'_b}{3l^2}\frac{d^2}{6}$	$\sigma_\Delta = \frac{100\Delta E'}{l^4}\frac{d^3}{12}$
3-inch and 4-inch decking	$\sigma_b = \frac{20F'_b}{3l^2}\frac{d^2}{6}$	$\sigma_\Delta = \frac{116\Delta E'}{l^4}\frac{d^3}{12}$

For SI: 1 inch = 25.4 mm.

a. σ_b = Allowable total uniform load limited by bending.

σ_Δ = Allowable total uniform load limited by deflection.

b. d = Actual decking thickness.

l = Span of decking.

F'_b = Allowable bending stress adjusted by applicable factors.

E' = Modulus of elasticity adjusted by applicable factors.