

Appendix D: Dowel Bending Test Tables

Appendix D contains tables with values quantified for each dowel bending specimen tested. The figure below shows the corresponding points of interest as summarized in the tables, including variables, such as elastic stiffness and capacity and 5% offset yield load and displacement values. Abbreviations for load-displacement curves are as follows:

P_{cap} = Peak or capacity load

$P_{5\%}$ = 5% offset yield load

k_e = Elastic stiffness

$M = P * \text{Moment arm} = 3P$ (in-lbs)

$Z = d^3/6 = \text{Plastic section modulus for dowel diameter, } d$

F_{cap} = Bending strength at capacity

$F_{5\%}$ = Bending strength at 5% offset yield

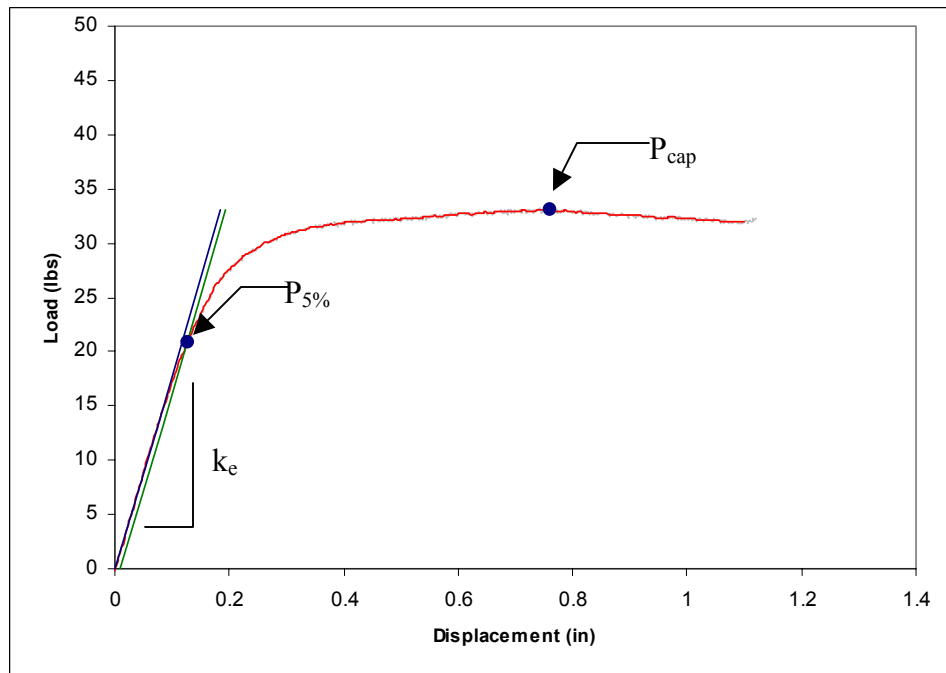


Figure D: Typical dowel bending test and property definitions