

Appendix A: Connection Test Data

Appendix A contains the load-slip curves for each tested connection specimen. The points of interest are shown on the curves, along with the elastic-plastic curves and corresponding equivalent strain energy, from which several variables are determined, including elastic stiffness and capacity, 5% offset yield and failure load and slip values. Abbreviations for load-slip curves are as follows:

- P_{cap} = Peak or capacity load
- $P_{5\%}$ = 5% offset yield load
- P_y = Equivalent elastic-plastic yield load
- P_f = Failure load
- k_e = Elastic stiffness

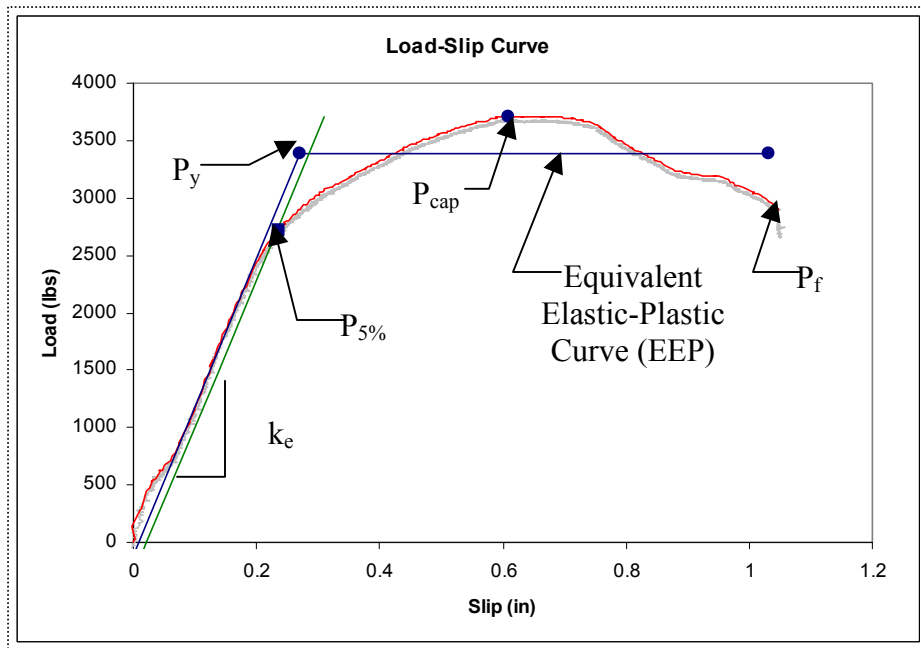


Figure A: Typical test load-slip curve and connection property definitions

Lag screw connection specimen identification is as follows:

