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:

- $P_{\text{cap}}$ = 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:

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12-2
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12 = Replication
2 = Group (Sample)