

8 RECOMMENDED DESIGN MODEL—SUMMARY OF DESIGN CHECKS

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Axial compression and shear force

- 9.1 DESIGN CHECK NO. 1 — Design capacity for bearing on concrete support
- 9.2 DESIGN CHECK NO. 2 — Design capacity of steel base plate
- 9.3 DESIGN CHECK NO. 3 — Design capacity of weld at column base
- 9.4 DESIGN CHECK NO. 4 — Design capacity for horizontal shear transfer by friction at base plate concrete interface
- 9.5 DESIGN CHECK NO. 5 — Design capacity for horizontal shear transfer by bearing of embedded column
- 9.6 DESIGN CHECK NO. 6 — Design capacity for horizontal shear transfer through shear key
- 9.7 DESIGN CHECK NO. 7 — Design capacity for horizontal shear transfer through anchor bolts

Axial tension and shear force

- 10.1 DESIGN CHECK NO. 8 — Design capacity of steel base plate
- 10.2 DESIGN CHECK NO. 9 — Design capacity of weld at column base
- 10.3 DESIGN CHECK NO. 10 — Design capacity of anchor bolts in tension
- 10.4 DESIGN CHECK NO. 5 — Design capacity for horizontal shear transfer by bearing of embedded column
- 10.5 DESIGN CHECK NO. 6 — Design capacity for horizontal shear transfer through shear key
- 10.6 DESIGN CHECK NO. 7 — Design capacity for horizontal shear transfer through anchor bolts
- 10.7 DESIGN CHECK NO. 11 — Design capacity for horizontal shear and tension applied to anchor bolts



Design Guide 7
Pinned base plate connections for columns
by

T.J. Hogan

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Pinned base plate connections for columns

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