

# Part 9

## CONNECTIONS

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See Section 2.1 for the specific Material Standard (AS 1163) referred to by the section type and steel grade in these Tables.

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Tube Mills

Design Capacity Tables for Structural Steel Hollow Sections

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# Part 9

## CONNECTIONS

### 9.1 Bolts

See Ref. [9.1] for information on AS 4100 requirements, bolt types and bolting categories, design capacities of commonly used bolts, minimum edge distances and design details for bolts.

### 9.2 Welds

See Ref. [9.1] for information on AS 4100 requirements, weld quality, design of butt welds, design of fillet welds.

### 9.3 Connection Design

See Ref. [9.2] for information and connection design models for Australian Standards and practice. Ref. [9.2] also notes further quality publications for hollow section connection design.

### 9.4 References

- [9.1] AISI, "Design Capacity Tables for Structural Steel – Volume 1: Open Sections", third edition, Australian Institute of Steel Construction, 1999 (Note: AISI is now ASI – the Australian Steel Institute).
- [9.2] Syam, A.A. & Chapman, B.G., "Design of Structural Steel Hollow Section Connections – Volume 1: Design Models", Australian Institute of Steel Construction, 1996.

**See Section 1.1.2 for details on reference Standards.**

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