



# LiteSteel beam Part 9 Connections

## Design Capacity Tables For LiteSteel® beam

### LiteSteel Technologies

ACN 113 101 054

PO Box 246 Sunnybank,  
Queensland 4109 Australia

Telephone +61 1300 789 572

Facsimile +61 1300 789 368

Email [lsb@litesteelbeam.com.au](mailto:lsb@litesteelbeam.com.au)

Web [www.litesteelbeam.com.au](http://www.litesteelbeam.com.au)

Corrosion  
Protection  
Brilliance.



November 2007 | Page 9-1

## Contents

Section	Page
9.1 General	9-2
9.2 Welds	9-2
9.3 Bolts	9-2
9.4 Screws and Rivets	9-2
9.5 Other Fasteners	9-2

## LiteSteel beam Part 9 Connections

### Design Capacity Tables For LiteSteel® beam

#### LiteSteel Technologies

ACN 113 101 054

PO Box 246 Sunnybank,  
Queensland 4109 Australia

Telephone +61 1300 789 572

Facsimile +61 1300 789 368

Email [lsb@litesteelbeam.com.au](mailto:lsb@litesteelbeam.com.au)

Web [www.litesteelbeam.com.au](http://www.litesteelbeam.com.au)

**Corrosion  
Protection  
Brilliance.**



## 9.1 General

No specific design capacities or details are given in this publication for connections. For general structural steel connections for the LSB, reference should be made to the companion Connection Design Manual for LiteSteel® beam (LST 2007c). Application specific connection designs are also provided by LiteSteel Technologies in the design manuals: Residential Construction Manual for LiteSteel® beam (LST 2007a) and Industrial & Commercial Floors using LiteSteel® beam (LST 2007b).

## 9.2 Welds

LSB sections have good weldability. Suitable welding electrodes are E48XX and W50X which are commonly used for structural steel. Welded connections must be designed in accordance with Section 5.2 of AS/NZS 4600. Refer also to the Connection Design Manual for LiteSteel® beam (LST 2007c).

## 9.3 Bolts

The vertical flat web of the LSB makes it suitable for most standard flexible bolted connections. Bolted connections must be designed in accordance with Section 5.3 of AS/NZS 4600. Refer also to the Connection Design Manual for LiteSteel® beam (LST 2007c).

## 9.4 Screws and Rivets

Screws and blind rivets can also be used to connect light steel brackets to the LSB. Screwed and riveted connections must be designed in accordance with Clauses 5.4 and 5.5 of AS/NZS 4600.

## 9.5 Other Fasteners

Other fasteners may also be suitable for connections to the LSB. Refer to the manufacturers of these fasteners for details and guidance.