



FIGURE B1 BOLTED/WELDED COVER PLATE SPLICE

The bolted/welded cover plate splice to an I-section comprises (see Figures B1, B2, B3, B4):

- one or three cover plates bolted to each flange on opposite sides of the splice location, welded to each flange on opposite sides of the splice location, such that each cover plate is bolted on one side of the splice location and welded on the other side.
- two cover plates either bolted on both sides of the web on both sides of the splice (Figure B1(a)) or bolted on one side and welded on the other (Figure B1(b)).

Bolts are fully tensioned Grade 8.8 to AS 1252 (Ref. 6) used in bearing-type mode (bolting category 8.8/TB) in either M20 or M24 diameter.

Welds are either 5 mm, 6 mm or 8 mm leg fillet welds along all sides of the cover plate on the welded side of the splice.

Cover plates are either cut from plate (Grade 250) to AS/NZS 3678 (Ref. 7) or are cut from standard square edge flat bar components (Grade 300) to AS 3679.1 (Ref. 8).

Design Guide 13
Splice connections

by

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