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AS 4100 Supplement 1—1990

Steel structures—Commentary

(Supplement to AS 4100—1990)

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Steel structures—Commentary (Supplement to AS 4100—1990)

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PREFACE

This Commentary is intended to be read in conjunction with AS 4100—1990, *Steel Structures*.

The purposes of this Commentary are to—

(a) provide background reference material to the clauses in AS 4100—1990;

(b) indicate the origins of particular requirements;

(c) explain the application of certain clauses; and

(d) provide some assistance in the use of AS 4100—1990.

AS 4100—1990 represents a comprehensive revision of AS 1250—1981, *SAA Steel Structures Code*, and AS 1511—1984, *SAA High-Strength Structural Bolting Code*. To put things into perspective, AS 1250—1981 essentially represented the technology of the 1970s. The considerable advances since then in materials and construction technology and the increased application of computers to modelling and analytical techniques has realized an improved understanding of both material and member behaviour in complete structures. This has led to more sophisticated design procedures which are now readily available to design-office staff.

While AS 4100—1990 inevitably reflects the abovementioned changes, a considerable amount of material and concepts has been retained from AS 1250—1981, particularly in those areas where the benefits of technical change seemed doubtful.

The clause numbers and titles used in this Commentary are the same as those in AS 4100—1990 except that the clause numbers are prefixed by the letter C, e.g. C7.2. In the Commentary, AS 4100—1990 is referred to as 'the Standard'.

Some Clauses in AS 4100—1990 are self-explanatory, and are therefore not discussed in this Commentary. In some cases, additional material is presented which is not directly related to a particular clause of AS 4100—1990.

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University of New South Wales
University of Sydney

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