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SAA CRANE CODE Part 3—BRIDGE AND GANTRY CRANES



STANDARDS ASSOCIATION OF AUSTRALIA
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This standard was issued in draft form for comment as DR 84277.

AUSTRALIAN STANDARD

**CRANES (INCLUDING HOISTS AND
WINCHES)**

**Known as the
SAA CRANE CODE**

Part 3

BRIDGE AND GANTRY CRANES

AS 1418.3—1986

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PREFACE

This edition of this standard was prepared by the Association's Committee on Cranes, to supersede AS 1418, SAA Crane Code, Part 3—1981, Bridge and Gantry Cranes.

This edition incorporates the following changes:

- (a) Requirements on classification in Section 2 have been aligned with the revision of AS 1418.1, SAA Crane Code, Part 1—General Requirements.
- (b) Details on slenderness ratio and deflection have been rationalized and updated.
- (c) Definitions have been removed and are now incorporated in AS 2549 Cranes—Glossary of Terms, in accordance with Amendment No 1, July 1982.
- (d) Editorial changes.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

for

CRANES (INCLUDING HOISTS AND WINCHES)

PART 3—BRIDGE AND GANTRY CRANES

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This standard sets out requirements for bridge, gantry and semi-gantry cranes defined in AS 1418.1.

It is complementary to AS 1418.1, but the requirements given herein take precedence over corresponding requirements in that standard.

1.2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

AS 1000 The International System of Units (SI) and Its Application

AS 1250 SAA Steel Structures Code

AS 1418.1 SAA Crane Code, Part 1—General Requirements

AS 2321 Short-link Chain for Lifting Purposes (Non-calibrated)

AS 2549 Cranes—Glossary of Terms

AS 2752 Preferred Numbers and Their Use

1.3 DEFINITIONS. For the purposes of this standard, the definitions given in AS 2549 apply.

SECTION 2. CLASSIFICATION AND LOAD RATING

2.1 CLASSIFICATION OF CRANE. The classification of each crane shall comply with AS 1418.1, Section 2—Classification of Cranes, Section 5—Crane Structures, and Section 7—Crane Mechanisms, consistent with the application in which the crane is, or is intended to be, used.

Typical crane application classifications of bridge and gantry cranes are specified in Table 2.1.

NOTE: The examples provide guidance only; each crane application has to be individually assessed.

2.2 LOAD RATING OF CRANE. Each crane shall be rated in terms of—

- (a) the safe working load of each hoisting motion; and
- (b) the classification of the application of the crane or the application for which it is intended.