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AS 5100.5-2004 Bridge design - Concrete

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Abbreviation

AS 5100.5-2004

Amendment

AS 5100.5-2004/Amdt 1-2010 AS 5100.5-2004/Amdt 2-2010

Valid from

23/04/2004

Information provider

SAI Global

Author

Standards Australia

Information type

Australian Standard

Format

PDF

Description

This Standard sets out minimum requirements for the design and construction of concrete bridges and associated structures, including members that contain reinforcing steel or tendons, or both, in limit states format.

Scope

This Standard applies to concrete structures made using the following materials:

- (a) Concrete with a characteristic compressive strength at 28 days (f'_c) in the range of 25 MPa to 65 MPa and with a saturated surface-dry density in the range of 2100 kg/m³ to 2800 kg/m³.
- (b) Reinforcing steels complying with AS/NZS 4671, and the following criteria:
 - (i) Yield strength (f_{sy}) of 500 MPa and Ductility Class N. These reinforcing materials may be used, without restriction, in all applications referred to in this Standard.
 - (ii) Yield strength (f_{sy}) of 500 MPa and Ductility Class L. These reinforcing materials shall not be used in any situation where the reinforcement is expected to undergo large deformation under strength limit state conditions or any situation where the bar is likely to be bent or rebent on site (see Note 1).
 - (iii) Round bars of yield strength (f_{sy}) of 250 MPa and Ductility Class N. These reinforcing bars shall only be used for fitments.
- (c) Prestressing tendons complying with AS 1310, AS 1311 or AS 1313, as appropriate (see Note 2).

Notes:

1. The use of Ductility Class L reinforcement is further limited by other clauses within this Standard.
2. The design of a structure or member to which this Standard applies should be the responsibility of an engineer as defined

in AS 5100.1.

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