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AS 1418.18-2001 Cranes, hoists and winches - Part 18: Crane runways and monorails

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Abbreviation

AS 1418.18-2001

Amendment

A 1-2003 and A 2-2003

Valid from

16/02/2001

Information provider

SAI Global

Author

Standards Australia

Information type

Australian Standard

Format

PDF, Hard copy

Cited By

[This resource is cited by 2 documents \(show Citations\)](#)

Description

This Standard specifies the general requirements for crane runway girders and monorails designed to AS 1418.1 and either AS 3990 or AS 4100.

Runway girders are the subject of much debate relating to their method of design, as some people regard them as a part of the building structure that houses and supports the crane and others regard them as an integral part of the crane. This Standard allows for the design of runway girders by either limit states or permissible stress methods to allow their design by those engineers who favour either method. However, in choosing to design the runway girders by one method, the designer must use that exclusively throughout the design.

This Standard has been introduced in recognition that there is currently little guidance given to aid designers in designing runway girders. It is intended that the Standard will give direction on the correct implementation of the appropriate structural design Standards with a view to producing a uniform design method for crane runways and monorails.

Scope

This Standard specifies the general requirements for runway girders and monorails constructed of structural steel.

Deflection limits and construction tolerances for structures supporting the runway girders are also covered by this Standard. A distinction is made between light duty and heavy duty runways.

Note: See Clause 1.5.7 for a definition of heavy duty runways and Clause 1.5.4 for a definition of light duty runways.

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This document is CITED BY:

- [AS/NZS 1170.1:2002](#)

AS 1418.18-2001 is cited by AS/NZS 1170.1:2002 (R2016) Structural Design Actions - Permanent, imposed and other actions

- [NZS 3404 Parts 1 and 2:1997](#)

AS 1418.18-2001 is cited by NZS 3404 Parts 1 and 2:1997 Steel structures standard

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