

GUIDE TO FALSEWORK

This Guide provides information on the design, construction and dismantling of falsework. It is part of a series of guides for formwork and falsework that includes the:

- [General guide for formwork and falsework](#)
- [Guide to formwork](#)
- [Guide to slip, jump and travelling formwork systems](#), and
- [Information Sheet: Formwork and falsework](#)

Falsework

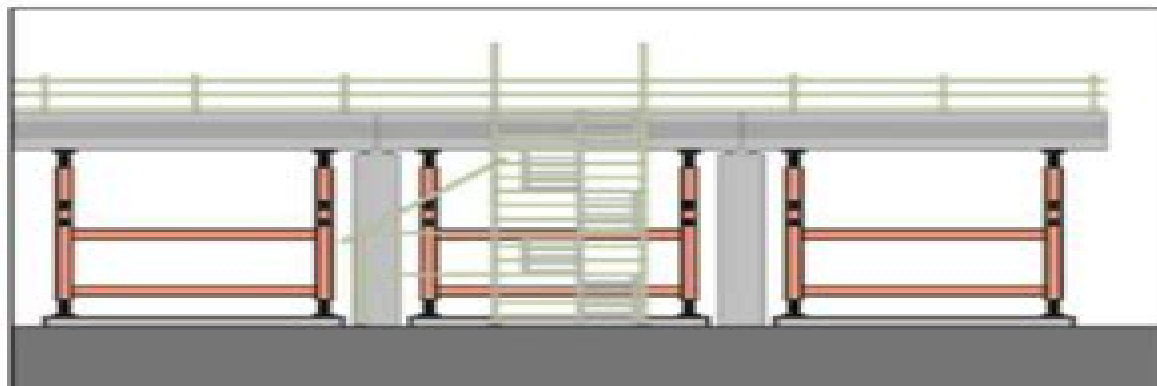
Falsework means the temporary structure used to support a permanent structure, material, plant, equipment and people until the construction of the permanent structure has advanced to the stage where it is self-supporting.

Although commonly referred to as being part of formwork assembly, the formwork supports including joists, bearers, bracing, foundations and footings are technically referred to as falsework. Further information is in the [Guide to formwork](#).

Falsework can be used to support a range of permanent structures before their completion including:

- prefabricated concrete elements for building or civil construction
- formwork and reinforcing steel for in-situ concrete structures
- large steel beams and fabrications, and
- bridge spans including arches (see Figure 1).

Figure 1 Falsework supporting prefabricated concrete bridge spans



Safe work method statements (SWMS)

If the work involves high risk construction work, a SWMS must be developed in consultation with workers and their representatives who are carrying out the high risk construction work as defined under the WHS Regulations.

Falsework Design Manual

**American Railway Engineering
Association**



Falsework Design Manual:

Bridge Planning and Design Manual California. Division of Highways,1925 Highway Design Manual of Instructions ,1975 **Falsework Manual** California. Department of Transportation. Office of Structure Construction,1988

Public Roads ,1991 **Manual of Reinforced Concrete** Charles Fleming Marsh,William Dunn,1916 *A Manual of Engineering Drawing for Students and Draftsment* Thomas Ewing French,1918 *Highway Design Manual* California. Department of Transportation,1990 **A Manual of Engineering Drawing for Students and Draftsmen** Thomas Ewing French,1929 *Forensic Structural Engineering Handbook* Robert Ratay,2009-11-05 The Most Complete and Up to Date Resource on Forensic Structural Engineering Thoroughly revised and featuring contributions from leading experts this definitive handbook offers comprehensive treatment of forensic structural engineering and expert witness delivery From exploring the possible origins of errors through investigating and analyzing failures to working with the legal profession for assigning responsibilities Forensic Structural Engineering Handbook Second Edition covers every important topic in the field The design and construction process Design and construction safety codes standards and regulations Standard of care and duty to perform First steps and legal concerns after a failure Engineering investigation of failures Origins and causes of failures Loads and hazards Design errors construction defects and project miscommunication Defects deterioration and durability Mechanisms and analyses of failures in steel concrete masonry timber and temporary structures building envelope and structural foundations Litigation and dispute resolution The expert consultant and witness *Going Places* ,1990

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