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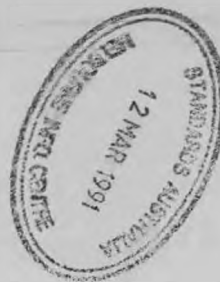
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Australian Standard®

**Electrical installations—
Construction and demolition sites**



STANDARDS AUSTRALIA



This Australian Standard was prepared by Committee EL/1, Wiring Rules. It was approved on behalf of the Council of Standards Australia on 17 January 1990 and published on 11 June 1990.

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Australian Electrical and Electronic Manufacturers Association
Association of Consulting Engineers Australia
Building Industry Specialist Contractors Association of Australia
Confederation of Australian Industry
Department of Administrative Services—Australian construction services
Electrical Contractors Associations of Australia
Electrical Regulatory Authorities
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Construction and demolition sites**

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PREFACE

This Standard was prepared by the Standards Australia Committee on Wiring Rules following requests from the electricity supply industry.

The purpose of the Standard is to establish sound practices for the use of electricity at construction and demolition sites.

The Standard is for application in conjunction with AS 3000, *SA Wiring Rules*. It is assumed that Statutory and Supply Authorities will exercise discretion in any case where immediate application of a particular requirement additional to AS 3000 would cause hardship. A period of six months from the date of publication is suggested before a particular requirement is applied on a mandatory basis.

During the preparation of this Standard consideration was given to the minimum periods for testing of portable tools presently required by Australian Regulatory Authorities. The six months period required in this Standard is considered to be a minimum safety requirement.

In the preparation of this Standard, reference was made to an Electricity Trust of South Australia draft for Electrical Installations on Construction and Demolition Sites and acknowledgement is made of the assistance received from that source.

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STANDARDS AUSTRALIA

Australian Standard

Electrical installations—Construction and demolition sites

1 SCOPE. This Standard specifies requirements for electrical installations which supply electricity to appliances and equipment on construction and demolition sites, and for the in-service testing of portable and transportable equipment used on construction and demolition sites.

2 APPLICATION. Electrical installations on construction sites shall be carried out in accordance with AS 3000, except as varied herein, and with the applicable additional requirements of this Standard. This Standard applies to electrical installations of the following:

- (a) Building work, excavation work, compressed air work and diving work.
- (b) Work on parts of a building which undergo structural alterations such as extension, major repair or demolition.
- (c) Work on or in connection with the construction or maintenance of roads, airfields or airstrips, or of the permanent way of a railway or tramway.
- (d) Dredging or salvaging work.
- (e) The laying, lining or maintenance of pipe or cables.
- (f) Earth moving work carried out with equipment requiring the use of other than manual power.
- (g) Any work in which explosives are used.
- (h) Temporary site offices, cloakrooms, meeting offices, dormitories, canteens, toilets, appliances and other facilities provided during any work referred to in (a) to (g).
- (i) Land clearing in preparation for any work referred to in (a) to (g).

This Standard does not specify requirements for the testing and maintenance of transportable generators.

3 REFERENCED DOCUMENTS. The following documents are referred to in this Standard.

AS

- 1775 Low voltage switchgear and controlgear—Air-break switches, isolators and fuse-combination units (up to and including 1000 V a.c. and 1200 V d.c.)
- 1930 Circuit-breakers for distribution circuits (up to and including 1000 V a.c. and 1200 V d.c.)
- 1939 Classification of degrees of protection provided by enclosures for electrical equipment
- 2005 Low voltage fuses—Fuses with enclosed fuse-links
- 2184 Low voltage switchgear and controlgear—Moulded-case circuit-breakers for rated voltages up to and including 600 V a.c. and 250 V d.c.
- 2293 Emergency evacuation lighting in buildings
- 2790 Electricity generating sets—Transportable (up to 25 kW)
- 3000 SAA Wiring Rules
- 3001 Electrical installations—Caravans and caravan park areas
- 3010 Electrical installations—Supply by generating set
- 3010.1 Part 1: Internal combustion engine driven sets
- 3760 In-service safety inspection and testing of electrical equipment

APPROVAL AND TEST SPECIFICATIONS

AS

- 3100 Definitions and general requirement for electrical materials and equipment
- 3105 Electrical portable outlet devices
- 3108 Isolating transformers and safety isolating transformers
- 3111 Miniature overcurrent circuit-breakers
- 3116 Elastomer insulated electric cables and flexible cables for working voltages up to and including 0.6/1 kV
- 3118 Electric inspection hand lamps
- 3123 Plugs, socket-outlets and couplers for general industrial application