Construction Safety (Australian Standards)

THE NORTHERN TERRITORY OF AUSTRALIA

Regulations 1981, No. 20*

Construction Safety Act

Construction Safety (Australian Standards) Rules

I, ROBERT STANFORD MARTIN, the Chief Inspector of Construction Safety for the Northern Territory of Australia, pursuant to section 30 of the Construction Safety Act, hereby make the following Rules.

Dated this 16th day of July, 1981.

R.S. MARTIN
Chief Inspector of
Construction Safety

CONSTRUCTION SAFETY (AUSTRALIAN STANDARDS) RULES

Citation

1. These Rules may be cited as the Construction Safety (Australian Standards) Rules.

Commencement

2. These Rules shall come into operation on the date on which the notice of the making of the Rules is published in the Gazette.

Australian Standards

3. Rules, codes, specifications and standards, as published by the Standards Association of Australia and listed in the following table are Australian Standards for the purposes of the Construction Safety Rules, subject to such modification as is expressed in those Rules:

*Confirmed in the Northern Territory Government Gazette on 7 August , 1981.

A. B. CAUDELL, Government Printer of the Northern Territory
Price: $1.05

Australian Standards

Series identification	Title
B104	Chain blocks (hand operated)
B231	Scaffolding machines (hand operated)
B273	Chain blocks (power operated)
B278	Shackles for lifting purposes
B281	Safety devices for gas cylinders
B283	Bordeaux connections
B284	Eyebolts for lifting purposes
B291	Lifting rings and links
CA12	Work in compressed air
C100	Definitions and general requirements for electrical materials and equipment
C167	Protective isolating transformers
CZ18	Rules for underwater breathing operation
MB101	Manual on steel wire ropes for purposes other than mining
Z67	Underwater air breathing apparatus
01	Glossary of terms used in timber standards
1138	Thimbles for use with wire rope or fibre (natural or synthetic) rope

Series identification	Title
1170	Rules for minimum design loads on structures (metric units) Part 1. Dead and live loads Part 2. Wind forces
1250	Rules for the use of steel in structures
1269	Code of practice for hearing conservation
1270	Hearing protection devices
1319	Rules for the design and use of industrial accident prevention signs
1328	Glued or laminated structural timber
1336	Code of practice for industrial eye protection
1337	Industrial eye protectors
1338	Protective filters against optical radiation in welding and allied operations
1353	Synthetic webbing flat slings
1380	Fibre rope slings (of natural or synthetic rope)
1394	Round steel wire for ropes
1418	Rules for cranes (including hoists and winches)
1438	Wire-coil flat slings
1470	Code of general principles for safe working in industry
1473	Code of practice for the guarding and safe use of road-working machinery

Series identification	Title
1499	Buoyancy vests
1504	Fibre rope (three-strand hawser laid)
1509	Rules for design and construction of formwork (metric units)
1512	Life jackets
1575	Tubes, couplers and accessories used in metal scaffolding
1576	Code of practice for metal scaffolding
1577	Solid timber scaffold planks
1578	Laminated timber scaffold planks
1649	Methods for the determination of basic working loads for metal fasteners for timber
1656	Steel wire ropes (other than for mining purposes)
1657	Rules for fixed platforms, walkways, stairways and ladders
1666	Wire rope slings
1684	Code of practice for construction in light timber framing
1688	Portable timber ladders (including step-ladders and trestle ladders)
1689	Code of practice for the use and maintenance of portable timber ladders
1715	Code of practice for respiratory protection

Series identification	Title
1716	Respiratory protection devices
1720	Rules for use of timber in structures
1742	Manual for uniform traffic control devices
1743	Road signs
1744	Forms of letters and numerals for road signs
1800	Code of practice for use and care of industrial safety helmets
1801	Industrial safety helmets
1840	Water (soda acid) type portable fire extinguishers
1841	Water (gas container) type portable fire extinguishers
1842	Water (stored pressure) type portable fire extinguishers
1843	Foam (chemical) type portable fire extinguishers
1844	Foam (gas container) type portable fire extinguishers
1845	Foam (stored pressure) type portable fire extinguishers
1846	Dry chemical type portable fire extinguishers
1847	Carbon dioxide type portable fire extinguishers
1848	Halogenated hydrocarbon type portable fire extinguishers
1849	Identification colours for portable fire extinguishers

Series identification	Title
1850	Classification, fire testing and rating of portable fire extinguishers
1851	Rules for maintenance of Fire Protective Equipment
1873	Explosive powered hand held tools, fasteners and explosive charges
1891	Industrial safety belts and harnesses
1892	Portable metal ladders
1961	Industrial Wheels and Castors
2030	Rules for the approval filling inspection testing and maintenance of cylinders for the storage and transport of compressed gases
2076	Wire rope grips
2089	Sheave Blocks (including ships' cargo blocks) of maximum lift 60+
2161	Industrial safety gloves and mittens (including electrical and medical gloves)
3000	Rules for the electrical equipment in buildings, structures and premises
3190	Current operated (core balance) earth leakage devices

SCHEDULE 1

CONTENTS OF FIRST AID BOXES

Items	Number of workers	
	21 to 100	Over 100
Cottonwool in balls or pack	100 grams	200 grams
Gauze pieces sterile 75 mm x 75 mm, packets of 5	2	4
Wound dressings sterile, small B.P. No. 13	6	12
Wound dressings sterile, large B.P. No. 14	3	6
Eye pads, sterile packets of 5	1	2
Gauze bandages, 25 mm	3	6
Gauze bandages, 50 mm	3	3
Triangular bandages unhemmed, minimum 90 cm, free of dressing, folded ready for use	3	6
Elastic dressing strip, 60 mm x 1 m, packets	1	2
Adhesive strapping tape, 25 mm, rolls	1 m	5 m
Adhesive dressing strips, assorted packets of 50	1	1
Approved liquid skin antiseptic, minimum 200 ml bottle	1	1

Items	Number of Workers	
	21-100	Over 100
Approved antiseptic ointment in a vanishing cream base, minimum 50 g tube	1	1
Scissors, minimum 125 mm	1	1
Splinter forceps, tweezers	1	1
Kidney tray	1	1
Needle or splinter probe	1	1
Drinking vessel, 200 ml	1	1
Asprin, soluble, foil-packed, minimum 16	2	4
Safety pins, packets	1	1
Plastic bags, minimum 150 mm x 100 mm	3	3
Dressing forceps, minimum 125 mm	1	1
Constrictive rubber bandage, 60 mm x 1 m	1	1
Approved first aid pamphlet	1	1

SCHEDULE 2

1.	General	
	(a) A.S.B104	Chain blocks (hand operated)
	(b) A.S.B273	Chain blocks (power operated)
	(c) A.S.B278	Shackles for lifting purposes
	(d) A.S.B283	Bordeaux connections
	(e) A.S.B284	Eyebolts
	(f) A.S.B291	Lifting rings and links
	(g) A.S.1138	Thimbles for use with wire rope or fibre (material or synthetic) rope
	(h) A.S.2076	Wire rope grips
	(i) A.S.2089	Sheave Blocks (including ships' cargo blocks) of maximum lift 60+
2.	Ropes	
	(a) A.S.1394	Round steel wire for ropes
	(b) A.S.1504	Fibre rope (three strand hawser laid)
	(c) A.S.1656	Steel wire ropes (other than for mining purposes)
	(d) A.S.MBI	Steel wire rope manual
3.	Slings	
	(a) A.S.1353	Synthetic webbing flat slings
	(b) A.S.1380	Fibre rope slings (of natural or synthetic rope)
	(c) A.S.1438	Wire Coil Flat Slings
	(d) A.S.1666	Wire rope slings

SCHEDULE 3 - SHORING REQUIREMENTS

		SHEETING		WALINGS		STRUTS			
TYPE OF SOIL.	DEPTH OF TRENCH (in metres)	MINIMUM DIMEN-SIONS (mm)	HORIZONTAL SPACING BETWEEN SHEETING (centre to centre in metres)	MINIMUM DIMEN-SIONS (mm)	VERTICAL SPACING BETWEEN WALINGS (centre to centre in metres)	MINIMUM OF STRUTS width of trench not exceeding 1.8 m	DIMENSIONS (in mm) width of trench exceeding 1.8 m but not 3.6 m	VERTICAL SPACING BETWEEN STRUTS (centre to centre in metres)	HORIZONTAL SPACING BETWEEN STRUTS (centre to centre in metres)
Hard and Solid Soil	over 1.5to3	200x50	1.8			100x100	125x125	1.2	2.7
	" 3.0to4.5	200x50	1.3	150x150	1.2	125x125	150x150	1.2	2.7
	" 4.5to6.0	200x50	1.0	200x200	1.2	150x150	150x150	1.2	2.7
	" 6.0to7.5	200x50	close	250x250	1.2	175x175	200x200	1.2	2.7
	" 7.5to9.0	200x75	boarded	300x200	1.2	200x200	225x225	1.2	2.7
Soil Liable to Crack Crumble or Cave in	over 1.5to2	200x50	1.3	150x100	1.2	100x100		1.2	2.7
	" 2.0to3	200x50	1.0	150x150	1.2	100x100	150x150	1.2	2.7
	" 3.0to4.5	200x50	.3	200x150	1.2	125x125	150x150	1.2	2.7
	" 4.5to6.0	200x50	close	250x200	1.2	150x150	200x200	1.2	2.7
	" 6.0to7.0	200x50	boarded	250x250	1.2	175x175	200x200	1.2	2.7
	" 7.5to9.0	200x75	"	300x200	1.2	200x200	225x225	1.2	2.7
Loose, Sandy, Soft or Filled Soil	over 1.5to2.0	200x50	0.5	150x100	1.2	100x100	125x125	1.2	2.7
	" 2.0to3.0	200x50	close	200x150	1.0	125x125	150x150	1.0	2.7
	" 3.0to4.5	200x50	boarded	200x200	1.2	150x150	150x150	1.2	2.7
	" 4.5to6.0	200x50	close	250x200	1.2	175x175	200x200	1.2	2.7
	" 6.0to7.5	200x75	boarded	250x200	1.2	175x175	200x200	1.2	2.7
	" 7.5to9.0	200x75	"	250x250	1.2	200x200	200x200	1.2	2.7
Soil under Hydrostatic Pressure	over 1.5to2.0	200x50	close	200x150	1.2	100x100	150x150	1.2	2.7
	" 2.0to3.0	200x75	boarded	250x150	1.0	125x125	150x150	1.0	2.7
	" 3.0to4.5	200x75	"	250x250	1.0	150x150	150x150	1.0	2.7
	" 4.5to6.0	200x75	"	300x250	1.0	200x200	200x200	1.0	2.7
	" 6.0to7.5	200x100	"	300x250	1.0	200x200	225x225	1.0	2.7
	" 7.5to9.1	200x100	"	350x350	1.0	225x225	250x250	1.0	2.7

Dimensions of timber members given in this table are nominal size
The horizontal spacing between sheeting centre to centre shall be the same from surface level to the bottom of the trench
Such spacing shall be that prescribed for a trench of the maximum proposed depth

SCHEDULE 4

LONGITUDINAL SPACING OF STANDARDS

Class of scaffolding	Steel tube 4.88 mm wall thick	Steel tube 4 mm or aluminium tube 4.5 mm wall thick
Heavy duty	2.3 m	1.8 m
Medium duty	1.7 m	2.4 m
Light duty	3.0 m	3.0 m

SCHEDULE 5

SPACING OF TIES

	Spacing of ties		
Height of scaffolding	Between ground level and 15 m level	Between 15 m level and 30 m level	Between 30 m level and 45 m level
Up to 15 metres	every third standard	-	-
15 metres to 30 metres	every second standard	every third standard	-
Above 30 metres	every standard	every second standard	every third standard

SCHEDULE 6

SPACING OF STANDARDS USED IN BIRD CAGE SCAFFOLDING

Class of scaffolding	Steel tube 4.88 mm wall thick		Steel tube 4 mm or aluminium tube 4.5 mm wall thick	
	Longitudinal spacing	Transverse spacing	Longitudinal spacing	Transverse spacing
Heavy duty	2.3 m	1.5 m	1.8 m	1.5 m
Medium duty	2.7 m	2.0 m	2.5 m	1.8 m
Light duty	3.0 m	2.4 m	3.0 m	2.1 m

SCHEDULE 7

DIMENSIONS FOR TIMBER SCAFFOLD NOT EXCEEDING 10 M

1. Sawn timber

Standards	-	100 mm x 75 mm
Ledgers	-	150 mm x 50 mm
Putlogs	-	75 mm x 75 mm
Bracing	-	100 mm x 50 mm

2. Pole timber

Standards	-	75 mm diam
Ledgers	-	65 mm diam
Putlogs	-	65 mm diam
Bracing	-	65 mm diam

SCHEDULE 8

A.S.1170
A.S.1328
A.S.1649
A.S.1684
A.S.1720

SCHEDULE 9

COLOUR IDENTIFICATION OF EXPLOSIVE CHARGES

Relative strength	Identification colour
Extra low	Brown
Low	Green
Low/medium	Yellow
Medium	Red
Medium/high	Purple
High	White
Extra high	Black

SCHEDULE 10

A.S.CA12
A.S.CZ18
A.S.Z67