# REFERENCED Australian Standards

DIPL - Roadworks Master – March 2022

| **Table – Referenced Australian Standards** | |
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| Use Standards, and their amendments, and their supplements, current 3 months before the date for the close of tenders, except where different editions, and amendments, and supplements, are required by statutory authorities, including, but not limited to, NATA and the National Construction Code including the Building Code of Australia. | |
| AS 1012 (set) | Methods of testing concrete |
| AS 1074 | Steel tubes and tubulars for ordinary services |
| AS 1111 (set) | ISO metric hexagon commercial bolts and screws - Product Grade C |
| AS 1112 (set) | ISO metric hexagon nuts |
| AS 1141(set) | Methods for sampling and testing aggregates |
| AS 1141.0 | * List of Methods |
| AS 1141.1 | * Definitions |
| AS 1141.2 | * Basic testing equipment |
| AS 1141.3.1 | * Sampling - Aggregates |
| AS 1141.5 | * Particle density and water absorption of fine aggregate |
| AS 1141.6.1 | * Particle density and water absorption of coarse aggregate - Weighing-in-water method |
| AS 1141.11.1 | * Particle size distribution – Sieving method |
| AS 1141.14 | * Particle shape, by proportional calliper |
| AS 1141.15 | * Flakiness index |
| AS 1141.18 | * Crushed particles in coarse aggregate derived from gravel |
| AS 1141.20.1 | * Average least dimension - Direct measurement (nominal size 10 mm and greater) |
| AS 1141.20.2 | * Average least dimension – Direct measurement (nominal size 7 mm and 5mm) |
| AS 1141.20.3 | * Average least dimension – Calculation (nomograph). |
| AS 1141.22 | * Aggregate soundness – Evaluation by exposure to sodium sulphate solution |
| AS 1141.23 | * Los Angeles value |
| AS 1141.24 | * Aggregate soundness – Evaluation by exposure to sodium sulphate solution |
| AS 1141.25.1 | * Degradation factor – Source rock |
| AS 1141.26 | * Secondary minerals content in igneous rocks |
| AS 1141.29 | * Accelerated soundness index by reflux |
| AS 1141.40 | * Polished aggregate friction value - Vertical road-wheel machine |
| AS 1141.41 | * Polished aggregate friction value – Horizontal bed machine |
| AS 1141.42 | * Pendulum friction test |
| AS 1141.50 | * Resistance to stripping of cover aggregates from binders |
| AS/NZS 1158 (set) | Lighting for roads and public spaces |
| AS/NZS 1158.1.1 | * Vehicular traffic (Category V) lighting – Performance and design requirements |
| AS/NZS 1158.1.2 | * Vehicular traffic (Category V) lighting – Guide to design, installation, operation and maintenance |
| AS 1160 | Bitumen emulsions for construction and maintenance of pavements |
| AS/NZS 1163 | Cold-formed structural steel hollow sections |
| AS 1170 (set) | Structural design actions |
| AS 1231 | Aluminium and aluminium alloys - Anodic oxidation coatings |
| AS/NZS 1252 (set) | High strength steel fastener assemblies for structural engineering - Bolts, nuts and washers for structural engineering |
| AS/NZS 1252.1 | * Technical requirements |
| AS/NZS 1252.2 | * Verification testing for bolt assemblies |
| AS 1273 | Unplasticised PVC (UPVC) downpipe and fittings for rainwater |
| AS 1289 (set) | Methods of testing soils for engineering purposes |
| AS 1289.0 | * Definitions and general requirements |
| AS1289.1.1 | * Soil classification tests - Sampling and preparation of soils – Disturbed soil samples |
| AS1289.2.1.1 | * Soil classification tests - Moisture content – Oven drying method (standard method) |
| AS 1289.3.1.1 | * Soil classification tests - Determination of the liquid limit of a soil – Four point Casagrande method |
| AS 1289.3.2.1 | * Soil classification tests - Determination of the plastic limit of a soil – Standard method |
| AS 1289.3.3.1 | * Soil classification tests - Calculation of the plasticity index of a soil |
| AS 1289.3.4.1 | * Soil classification tests - Determination of the linear shrinkage of a soil – Standard method |
| AS 1289.3.6.1 | * Soil classification tests - Determination of the particle size distribution of a soil – Standard method of analysis by sieving |
| AS 1289.3.7.1 | * Soil classification tests - Determination of the sand equivalent of a soil using a power-operated shaker |
| AS 1289.5.1.1 | * Soil compaction and density tests - Determination of the dry density/moisture content relation of a soil using standard compactive effort |
| AS 1289.5.2.1 | * Soil compaction and density tests - Determination of the dry density/moisture content relation of a soil using modified compactive effort |
| AS 1289.5.4.1 | * Soil compaction and density tests – Compaction control test - Dry density ratio, moisture variation and moisture ratio |
| AS 1289.5.8.1 | * Determination of field density and field moisture content of a soil using a nuclear surface moisture density gauge – Direct transmission mode |
| AS 1289.6.1.1 | * Soil strength and consolidation tests - Determination of the California Bearing Ratio of a soil – Standard laboratory methods for a remoulded specimen |
| AS/NZS 1336 | Eye and face protection - Guidelines |
| AS/NZS 1337 (set) | Personal eye protection and Eye and face protection |
| AS/NZS 1338 (set) | Filters for eye protectors |
| AS 1345 | Identification of the contents of pipes, conduits and ducts |
| AS 1348 | Glossary of terms - Road and traffic engineering |
| AS 1379 | Specification and supply of concrete |
| AS 1397 | Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium |
| AS 1428.4.1 | Design for access and mobility – Means to assist the orientation of people with vision impairment - Tactile ground surface indicators |
| AS/NZS 1477 | PVC pipes and fittings for pressure applications |
| AS 1478.1 | Chemical admixtures for concrete, mortar and grout – Admixtures for concrete |
| AS/NZS 1554 (set) | Structural steel welding |
| AS 1579 | Arc-welded steel pipes and fittings for water and waste-water |
| AS/NZS 1580 (set) | Paints and related materials – Methods of test |
| AS/NZS 1580.108.1 | * Determination of dry film thickness on metallic substrates - Non- destructive methods |
| AS/NZS 1580.205.4 | * Application properties – Airless spraying |
| AS/NZS 1594 | Hot rolled steel flat products |
| AS 1597.1 | Precast reinforced concrete box culverts – Small culverts (not exceeding 1200 mm span and 1200 mm height) |
| AS 1597.2 | Precast reinforced concrete box culverts – Large culverts (exceeding 1200 mm span or 1200 mm height and up to and including 4200 mm span and 4200 mm height) |
| AS 1604.1 | Specification for preservative treatment – Sawn and round timber |
| AS 1627 (set) | Metal finishing - Preparation and pretreatment of surfaces. (Code of Practice for Preparation and Pretreatment of Metal Surfaces prior to Protective Coating). |
| AS 1627.0 | * Method selection guide |
| AS 1627.1 | * Removal of oil, grease and related contamination. |
| AS 1627.2 | * Power tool cleaning. |
| AS 1627.4 | * Abrasive blast cleaning of steel. |
| AS 1627.9 | * Pictorial surface preparation standards for painting steel surfaces |
| AS/NZS 1664 (set) | Aluminium structures |
| AS/NZS 1664.1 | Limit state design |
| AS/NZS 1664.2 | Allowable stress design |
| AS 1672.1 | Limes and limestones – Limes for building |
| AS 1678 (set) | Emergency procedure guide – Transport |
| AS 1678.3A1 | * Group text EPGs for Class 3 substances – Flammable liquids |
| AS 1720 (set) | Timber structures |
| AS 1720.1 | Design methods |
| AS 1722 | Pipe threads of Whitworth form - Fastening pipe threads |
| AS 1725 (set) | Chain link fabric fencing |
| AS 1726 | Geotechnical site investigations |
| AS/NZS 1734 | Aluminium and aluminium alloys - Flat sheet, coiled sheet and plate |
| AS 1742 (set) | Manual of uniform traffic control devices |
| AS 1742.2 | * Traffic control devices for general use |
| AS 1742.3 | * Traffic control for works on roads |
| AS 1742.6 | * Tourist and services signs |
| AS 1742.9 | * Bicycle facilities |
| AS 1742.10 | * Pedestrian control and protection |
| AS 1743 | Road signs – Specifications |
| AS 1744 | Standard alphabets for road signs |
| AS/NZS 1800 | Occupational protective helmets - Selection, care and use |
| AS/NZS 1801 | Occupational protective helmets |
| AS 1906 (set) | Retroreflective materials and devices for road traffic control purposes |
| AS/NZS 1906.1 | * Retroreflective sheeting |
| AS/NZS 1906.2 | * Retroreflective devices (non pavement application) |
| AS/NZS 1906.3 | * Raised pavement markers (retroreflective and non-retroreflective) |
| AS/NZS 1906.4 | * High-visibility materials for safety garments |
| AS 1940 | The storage and handling of flammable and combustible liquids |
| AS 2001 (set) | Methods of test for textiles - Physical tests |
| AS 2001.2.3.2 | * Determination of maximum force using the grab method (ISO 13934-2:1999, MOD) |
| AS 2008 | Bitumen for pavements |
| AS/NZS 2009 | Glass beads for pavement-marking materials |
| AS/NZS 2053 (set) | Conduits and fittings for electrical Installations |
| AS/NZS 2053.1 | * General requirements |
| AS 2106.2 | Methods for the determination of the flash point of flammable liquids (closed cup) - Determination of flash point - Pensky-Martens closed cup method |
| AS 2144 | Traffic signal lanterns |
| AS 2150 | Hot mix asphalt – A guide to good practice |
| AS 2157 | Cutback bitumen |
| AS 2187.1 | Explosives - Storage, transport and use - Storage |
| AS 2187.2 | Explosives - Storage, transport and use - Use of explosives |
| AS/NZS 2210 (set) | Safety, protective and occupational footwear |
| AS/NZS 2276 (set) | Cables for traffic signal installations |
| AS/NZS 2276.1 | * Multicore power cables |
| AS/NZS 2276.2 | * Feeder cable for vehicle detectors |
| AS/NZS 2276.3 | * Loop cables for vehicle detectors |
| AS/NZS 2299 (set) | Occupational diving operations |
| AS/NZS 2299.1 | * Standard operational practice |
| AS/NZS 2299.2 | * Scientific diving |
| AS/NZS 2299.3 | * Recreational industry diving and snorkelling operations |
| AS/NZS 2299.4 | * Film and photographic diving |
| AS 2303 | Tree stock for landscape use |
| AS/NZS 2310 | Glossary of paint and painting terms |
| AS/NZS 2311 | Guide to the painting of buildings |
| AS 2312 (set) | Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings |
| AS 2312.1 | * Paint coatings |
| AS/NZS 2312.2 | * Hot dip galvanizing |
| AS 2339 | Traffic signal posts, mast arms and attachments (Replaces AS 2979) |
| AS 2341 (set) | Methods of testing bitumen and related roadmaking products |
| AS/NZS 2341.2 | * Determination of dynamic viscosity by vacuum capillary viscometer |
| AS 2341.3 | * Determination of kinematic viscosity by flow through a capillary tube |
| AS/NZS 2341.4 | * Determination of dynamic viscosity by rotational viscometer |
| AS 2341.6 | * Determination of density using a hydrometer |
| AS 2341.9 | * Determination of water content (Dean and Stark) |
| AS 2341.12 | * Determination of penetration (available obsolescent - approximately equivalent to ASTM D5) |
| AS/NZS 2341.13 | * Long-term exposure to heat and air |
| AS 2341.18 | * Determination of softening point (ring and ball method) |
| AS/NZS 2350.0 | Methods of testing portland and blended cements - General introduction and list of methods |
| AS/NZS 2350.1 | Methods of testing portland, blended and masonry cements – Sampling |
| AS 2353 | Pedestrian push button assemblies |
| AS 2423 | Coated steel wire fencing products for terrestrial, aquatic and general use |
| AS/NZS 2433 | Plastics - Method for exposure to ultraviolet lamps |
| AS 2439.1 | Perforated plastics drainage and effluent pipe and fittings - Perforated drainage pipe and associated fittings |
| AS 2698.2 | Plastics pipes and fittings for irrigation and rural applications - Polyethylene rural pipe |
| AS 2698.3 | Plastics pipes and fittings for irrigation and rural applications - Mechanical joint fittings for use with polyethylene micro-irrigation pipes |
| AS 2700(set) | Colour Standards for general purposes |
| AS 2700S(B21) | * Ultramarine |
| AS 2700S(G13)( | * Emerald |
| AS 2700S(N14) | * White |
| AS 2700S(N61) | * Black |
| AS 2700S(R13) | * Signal red |
| AS 2700S(R62) | * Venetian red |
| AS 2700S(Y14) | * Golden yellow |
| AS 2700S(Y35) | * Off-white |
| AS 2703 | Vehicle loop detector sensors |
| AS 2758 (set) | Aggregates and rock for engineering purposes |
| AS 2758.1 | * Concrete aggregates |
| AS 2758.2 | * Aggregate for sprayed bituminous surfacing |
| AS 2758.5 | * Coarse asphalt aggregates |
| AS 2809.5 | Road tank vehicles for dangerous goods - Tankers for bitumen based products |
| AS 2815 (set) | Training and certification of occupational divers |
| AS 2815.1 | * Occupational SCUBA diver - Standard |
| AS/NZS 2815.2 | * Surface supplied diving to 30 m |
| AS 2815.3 | * Air diving to 50 m |
| AS 2815.4 | * Bell diving |
| AS/NZS 2815.5 | * Dive supervisor |
| AS 2865 | Confined Spaces |
| AS 2876 | Concrete kerbs and channels (gutters) - Manually or machine placed |
| AS 2890(set) | Parking facilities |
| AS 2890.1 | * Off-street car parking |
| AS 2890.2 | * Off-street commercial vehicles facilities |
| AS 2890.3 | * Bicycle parking |
| AS 2890.5 | * On-street parking |
| AS/NZS 2890.6 | * Off-street parking for people with disabilities |
| AS 2891 (set) | Methods of sampling and testing asphalt |
| AS/NZS 2891.1.1 | * Sampling – Loose asphalt |
| AS 2891.1.2 | * Sampling – Coring method |
| AS 2891.1.3 | * Sampling – Asphalt from slabs |
| AS/NZS 2891.3.1 | * Binder content and aggregate grading – Reflux method |
| AS/NZS 2891.3.2 | * Binder content and aggregate grading – Centrifugal extraction method |
| AS/NZS 2891.3.3 | * Binder content and aggregate grading – Pressure filter method |
| AS/NZS 2891.5 | * Compaction of asphalt by Marshall method and determination of stability and flow – Marshall procedure |
| AS/NZS 2891.7.1 | * Determination of maximum density of asphalt – Water displacement method |
| AS/NZS 2891.7.3 | * Determination of maximum density of asphalt – Methylated spirits displacement |
| AS/NZS 2891.8 | * Voids and volumetric properties of compacted asphalt mixes |
| AS/NZS 2891.9.1 | * Determination of bulk density of compacted asphalt – Waxing procedure |
| AS/NZS 2891.9.2 | * Determination of bulk density of compacted asphalt – Presaturation method |
| AS/NZS 2891.9.3 | * Determination of bulk density of compacted asphalt – Mensuration method |
| AS 2979 | (Superseded by AS 2339) |
| AS/NZS 3000 | Electrical installations (known as the Australian/New Zealand Wiring Rules) |
| AS/NZS 3100 | Approval and test specification - General requirements for electrical equipment |
| AS/NZS 3191 | Electric flexible cords |
| AS/NZS 3500.1 | Plumbing and drainage – Water service |
| AS 3568 | Oils for reducing the viscosity of residual bitumen for pavements |
| AS 3600 | Concrete structures |
| AS 3610.1 | Formwork for concrete – Specifications |
| AS/NZS 3661.1 | (Superseded by AS/NZS 4586 and AS/NZS 4663) |
| AS/NZS 3661.2 | Slip resistance of pedestrian surfaces – Guide to the reduction of slip hazards |
| AS/NZS 3678 | Structural steel - Hot rolled plates, floorplates and slabs |
| AS/NZS 3679.1 | Structural steel - Hot rolled bars and sections |
| AS 3705 | Geotextiles – Identification, marking and general data |
| AS 3706 (set) | Geotextiles – Methods of test |
| AS 3706.1 | * General requirements, sampling, conditioning, basic physical properties and statistical analysis |
| AS 3706.2 | * Determination of tensile properties – Wide strip and grab method |
| AS 3706.3 | * Determination of tearing strength – Trapezoidal method |
| AS 3706.4 | * Determination of bursting strength – California bearing ratio (CBR) – Plunger method |
| AS 3706.9 | * Determination of permittivity, permeability and flow rate |
| AS 3706.11 | * Determination of durability - Resistance to degradation by light, heat and moisture |
| AS/NZS 3725 | Design for installation of buried concrete pipes |
| AS 3730.14 | Guide to properties of paints for buildings - Undercoat - Solvent borne - Interior/exterior |
| AS/NZS 3750.9 | Paints for steel structures – Organic zinc-rich primer |
| AS/NZS 3750.22 | Paints for steel structures – Full gloss enamel – Solvent-borne |
| AS/NZS 3845.1 | Road safety barrier systems and devices - Road safety barrier systems |
| AS/NZS 3845.2 | Road safety barrier systems and devices - Road safety devices |
| AS 3850 (set) | Prefabricated concrete elements |
| AS 3850.1 | General requirements |
| AS 3894(set) | Site Testing of Protective Coatings |
| AS 3894.3 | * Determination of dry film thickness |
| AS 3894.5 | * Determination of surface profile |
| AS 3894.10 | * Inspection Report – Daily surface and ambient conditions |
| AS 3894.11 | * Equipment Report |
| AS 3894.12 | * Inspection Report – Coating |
| AS 3894.13 | * Daily blast and paint |
| AS 3894.14 | * Inspection Report – Daily painting |
| AS 3972 | General purpose and blended cements |
| AS 4049 (set) | Paints and related materials - Pavement marking materials |
| AS 4049.1 | * Solvent borne paint - For use with surface applied glass beads |
| AS 4049.2 | * Thermoplastic pavement marking materials - For use with surface applied glass beads |
| AS 4049.3 | * Waterborne paint - For use with surface applied glass beads |
| AS 4049.4 | * High performance pavement marking systems |
| AS 4049.5 | * Performance assessment of pavement markings |
| AS/NZS 4058 | Precast concrete pipes (pressure and non‑pressure) |
| AS 4100 | Steel structures |
| AS 4133 (set) | Methods of testing rocks for engineering purposes |
| AS 4191 | Portable traffic signal systems |
| AS 4373 | Pruning of amenity trees |
| AS/NZS 4399 | Sun protective clothing – Evaluation and classification |
| AS 4419 | Soils for landscaping and garden use |
| AS 4454 | Composts, soil conditioners and mulches |
| AS/NZS 4501.1 | Occupational protective clothing - Guidelines on the selection, use, care and maintenance of protective clothing |
| AS/NZS 4501.2 | Occupational protective clothing - General requirements |
| AS/NZS 4586 | Slip resistance classification of new pedestrian surface materials (Partially supersedes AS/NZS 3661.1) |
| AS/NZS 4602.1 | High visibility safety garments - Garments for high risk applications |
| AS/NZS 4645(set) | Gas distribution networks |
| AS/NZS 4663 | Slip resistance measurement of existing pedestrian surfaces (Partially supersedes AS/NZS 3661.1) |
| AS/NZS 4671 | Steel reinforcing materials |
| AS/NZS 4680 | Hot-dip galvanized (zinc) coatings on fabricated ferrous articles |
| AS 4687 | Temporary fencing and hoardings |
| AS 4742 | Earth-moving machinery - Machine-mounted forward and reverse audible warning alarm - Sound test method |
| AS 4852.1 | Variable message signs - Fixed signs |
| AS 4852.2 | Variable message signs - Portable signs |
| AS 4997 | Guidelines for the design of maritime structures |
| AS/NZS 5000.1 | Electric cables – Polymetric insulated – For working voltages up to and including 0.6/1 (1.2) kV |
| AS 5100.5 | Bridge design - Concrete |
| AS/NZS ISO 9000 | Quality management systems - Fundamentals and vocabulary |
| AS/NZS ISO 31000 | Risk Management – Principles and guidelines |
| AS/NZS 61558 (set) | Safety of power transformers, power supplies, reactors and similar products |
| AS/NZS 61558.1 | * General requirements and tests (IEC 61558-1 Ed 2, MOD) |
| AS/NZS 61558.2.4 | * For supply voltages up to 1 100 V - Particular requirements and tests for isolating transformers for isolating transformers and power supply units incorporating transformers (IEC 61558-2-4:Ed 2, IDT) |
| AS/NZS 61558.2.6 | * For supply voltages up to 1 100 V - Particular requirements for safety isolating transformers and power supply units incorporating safety isolating transformers (IEC 61558-2-6:Ed 2, MOD) |