

## STANDARDS

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AS 2566.1:1998	Plastics Pipelaying Design <i>AS 2566.1 Supplement 1 1998</i>
AS 3680:1989	Polyethylene sleeving for ductile iron pipelines.
AS/NZS 1100.401:1984	Engineering survey and engineering survey design drawing. <i>Amend: 1</i>
AS/NZS 1158 V3	AS/NZS 1158:- Road-lighting  1158.1 Vehicular traffic Category V) lighting.  1158.1.1:1997 Performance and installation design requirements.  1158.1.31997 Guide to design, installation, operation and maintenance.
AS/NZS 1260:1996	PVC pipes and fittings for drain, waste and vent applications.
AS/NZS 1477:1996	PCV pipes fittings for pressure applications.
AS/NZS 1547:2012	On-site Domestic Wastewater Management
AS/NZS 2280:1995	Ductile iron pressure pipes & fittings.
AS/NZS 2290:2009	Off-street parking for people with disabilities.
AS/NZS 3725:1989	Loads on buried concrete pipes. <i>AS/NZS 3725.S1:1989 Commentary supplement.</i>
AS/NZS 4331:	Metallic flanges. 4331.1:1995, Steel flanges. 4331.2 1995, Cast iron flanges. 4331.3:1995, Copper alloy and composite flanges.
BS 65:1991	Specification for vitrified clay pipes, fittings and ducts, also flexible mechanical joints for use solely with surface water pipes and fittings. <i>Amend: May 1995</i>
BS EN 295:	Vitrified clay pipes and fittings and pipe joints for drains and sewers.  BS EN 295-1 1991 - Requirements (replaces BS 65 1988) <i>Amend: 9290 May 1996</i> <i>Amend: 9429 May 1995</i>  BS EN 295-2 1991 - Quality Control - Sampling (replaces BS 65 1988) <i>Amend: 9429 May 1995</i>

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	BS EN 295-3 1991 - Test methods (replaces BS 65 1988)
	BS EN 295-4 1995 - Requirements for special fittings, adaptors and compatible accessories.
	BS EN 295-5 1994 - Requirements for perforated vitrified clay pipes and fittings.
	BS EN 295-6 1996 - Requirements for vitrified clay manholes.
	BS EN 295-7 1996 - Requirements for vitrified clay pipes and joints for pipe jacking.
BS 1377:	Methods for testing soil for civil engineering purposes.
	BS 1377 Part 1 1990 - General requirements and sample preparation.
	BS 1377 Part 2 1990 - Classification tests.
	BS 1377 Part 3 1990 - Chemical and electro-chemical tests.
	BS 1377 Part 4 1990 - Compaction-related tests.
	BS 1377 Part 5 1990 - Compressibility, permability and durability tests.
	BS 1377 Part 6 1990 - Consolidation and permeability tests in hydraulic cells with pore pressure measurement.
	BS 1377 Part 7 1990 - Shear strength tests (total stress).
	BS 1377 Part 8 1990 - Shear strength tests (effective stress).
	BS 1377 Part 9 1990 - In-situ tests.
NZS 3106:1986	Code of practice for concrete structures for the storage of liquids.
NZS 3107:1987	Specification for precast concrete drainage and pressure pipes.
NZS 3124:1987	Specification for concrete construction for minor works.
NZS 3302:1983	Specification for ceramic pipes, fittings and joints.
NZS 3604:1999	Code of practice for light timber frame buildings not requiring specific design. <i>Amend: 1</i>
NZS 4121:2001	Design for access and use of buildings and facilities by disabled persons.

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NZS 4203: 1992	General structural design and design loadings for buildings.
NZS 4229:1986	Code of practice for concrete masonry buildings not requiring specific design. <i>Amend: 1,2</i>

NZS 4402:-	Part 1:1986 Methods of testing soils for civil engineering purposes. Part 2: - Soil classification tests. Part 2, Section 2:1986 Test 2.2 Determination of the liquid limit. Part 2, Section 6 1986 Test 2.6 Determination of the linear shrinkage.
NZS 4404:2010	Land Development and Subdivision Engineering.
NZS 4431 1989	Code of Practice for earth fill for residential development. <i>Amend. 1</i>
NZS 4442:1988	Welded steel pipes and fittings for water, sewage and medium pressure gas.
NZS 4452:1996	Code of practice for the construction of underground pipe sewers and drains. <i>Amend: 1</i>
NZS 6701:1983	Code of Practice for road lighting.
NZS 7604:1981	Specification for high density polyethylene drain and sewer pipe and fittings.
NZS 7609: -	Acrylonitrile butadiene styrene (ABS) pipes and fittings for pressure applications. Part 1:1990, Pipes. <i>Amend: A</i> Part 2:1990, Solvent cement fittings. <i>Amend: A</i>
NZS 7610:1991	Blue polyethylene pipes up to nominal size 63 for below ground use for potable water. <i>Amend 1, 2, A</i>
NZS 7642:1971	Specification for unplasticised PVC soil and ventilating pipe, fittings and accessories. <i>Amend: A, 1, 1A, 2, 2A,</i>
NZS 7643:1979	Code of practice for the installation of unplasticised PVC pipe systems. <i>Amend. 1</i>
NZS 7649:1988	Unplasticised PVC sewer, drain pipe and fittings.
NZS/AS 2033:1980	Installation of polyethylene pipe systems.
NZS/AS 1906:2010	Retro-reflective materials and devices for road traffic control purposes
NZS/AS 3725:1989	Loads on buried concrete pipes. <i>Supplement 1</i>

NZS/BS 2494:1990	Specification for elastomeric joint rings for pipework and pipelines.
NZS/BS 5152:1974	Specification for cast iron globe and globe stop and check valves for general purposes. <i>Amend: 1, 2, 3, 4</i>
NZS/BS 5153:1974	Specification for cast iron check valves for general purposes. <i>Amend. 3</i>
NZS/BS 5163:1986	Specification for predominantly key-operated cast iron gate valves for waterworks purposes. <i>Amend. 1, 2</i>
NZS/BS 750:1984	Specification for underground fire hydrants and surface box frames and covers. <i>Amend: 1</i>
NZS/BS 970:	Specification for wrought steels for mechanical and allied geographical engineering purposes.
Part 1:1991	General inspection and testing procedures and specific requirements for carbon, carbon manganese, alloy and stainless steels.

## **ROADING DESIGN DOCUMENTS**

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American Pub. - Highway Research:1977	The National Cooperative Highway Research Programme Report No 118 - Location, selection and maintenance of highway traffic barriers. - Michie, JD and Bronstadm ME <i>Figure 3.1 Median Barrier requirements</i>
Austrroads:	Guide to Traffic Engineering Practice - Part 5: Intersections at grade, 1988 (with Roading Design Guideline RD-1 Transit 1991)
Austrroads	Guide to Traffic Engineering Practice - Part 6: Roundabouts, 1993 (with Roading Design Guideline RD-2 Transit 1991)
Austrroads	A Guide to Structural Design of Road Pavements in NZ, 1992 plus NZ (TNZ) Supplement (Nov. 95)
Austrroads	Guide to the Geometric Design of Rural Roads, 1989 (with Appendix 3A of the State Highway Control Manual)
Austrroads	Waterway Design - A Guide to the Hydraulic Design of Bridges, Culverts and Floodways, June 1994.
LTSA	NZ On-Road Tracking Curves, October 1995.
LTSA:1990	RTS 1 (MoT) - Guidelines for the implementation of Traffic

	Control at Crossroads.
LTSA:1991	RTS 4 (MoT) - Guidelines for Flush Medians.
LTSA:1992	RTS 5 (MoT) - Guidelines for Rural Road Marking & Delineation.
LTSA:1994	RTS 8 (MoT) - Guidelines for Safe Kerblines Protection.
LTSA:1994	RTS 9 (MoT) - Guidelines for the Signing and Laying out of Slip Lanes.
LTSA:1955	RTS 11 - Urban Roadside Barriers and alternative treatments.
NAASRA:1987	Safety Barriers : Consideration for the Provision for Safety Barriers on rural roads.
NZIE (Auckland Branch) now IPENZ	A Guide & Procedure for Hydrological design of urban stormwater systems 1980.
TNZ:1993	Bituminous Sealing Manual (Pavement Design).
TNZ:1994	Research Report No. 32 – Site Design for Heavy Vehicle Facilities.
TNZ:5/1994	Bridge Manual (Design).
TNZ:11/1994	Guideline for the Management of Road Traffic Noise - State Highway improvements.
TNZ:1991	Guidelines for Planting for Road Safety.

#### Notes:

1. Transit New Zealand has had a name change to New Zealand Transport Agency. At the time of completion of this Code (2012) the names of the roading specifications have not been adjusted accordingly.
2. The current edition of all standards must be used. Refer to [www.nzta.govt.nz/resources/specifications](http://www.nzta.govt.nz/resources/specifications).
3. REFER: Chip-sealing in New Zealand (NZTA Manual).  
Traffic Control Devices (NZTA Manual).

#### **TNZ SPECIFICATIONS -**

TNZ/LTSA:2007	Manual of Traffic Signs & Markings Part 1 Traffic Signs.
TNZ/LTSA:2008	Manual of Traffic Signs & Markings Part 2 Traffic Markings.
	NZT Pedestrian Planning and Design Guide

#### **AUCKLAND COUNCIL TECHNICAL PUBLICATIONS -**

TP 10	Stormwater Treatment Devices.
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TP 124 Low Impact Design Manual and Landscape and Ecology values within Stormwater Management.

TP 58 On-site Wastewater Systems: Design and Management Manual

**WAIKATO REGIONAL COUNCIL TECHNICAL PUBLICATION -**

Technical Report No. 2009/02  
Activities.

Erosion and Sediment Control - Guidelines for Soil Disturbing

**THAMES COROMANDEL DISTRICT COUNCIL**

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District Plan.