



PIPES, TANKS & CHAMBERS

STANDARDS & OTHER DOCUMENTS

FLEXIBLE PIPE STANDARDS EXTANT IN NZ

Document	Name & Notes
AS/NZS 5065:2005	PE & PP pipes and fittings for drainage and sewerage applications
AS/NZS 2566.1:1998	Buried flexible pipelines Part 1: Structural design
AS/NZS 2566.2:2002	Buried flexible pipelines Part 2: Installation
AS 2439.1:2007	Perforated drainage pipe and associated fittings
NZS4404:2010	Land development and subdivision infrastructure
ISO 22101:2022	PE reinforced with short glass fibres (PE-sGF) piping systems
AS 1646:2007	Elastomeric seals for waterworks purposes

SOLID PIPE STANDARDS EXTANT IN NZ

Document	Name & Notes
AS/NZS 4130:2018	Polyethylene pipes for pressure applications
AS/NZS 2033:2024	Design and installation of polyolefin pipe systems
AS/NZS 1254:2010	PVC-U Pipes and fittings for stormwater and surface water applications
AS/NZS 1260:2017	PVC-U Pipes and fittings for drain, waste and vent applications

OVERSEAS STANDARDS

Document	Name & Notes
DIN16969-1	Thermoplastic pipes and fittings with profiled outer and smooth inner surfaces – Dimensions INF HAS 2000, NOT YET 2018
DIN16969-2	Thermoplastic pipes and fittings with profiled outer and smooth inner surfaces – Technical delivery conditions INF HAS 2000, NOT YET 2018



TN-63	Safe Pull strength calculations for conduit including derating factors
ISO 9969	Thermoplastics pipes – determination of ring stiffness

<https://www.krah.net/de/news/latest-news/271-an-important-update-of-din16961-is-published>
Has some information

NZ CODES OF PRACTICE

Document	Name & Notes
SP/M/022	NZTA Bridge manual
P46	NZTA Stormwater management and minor stream diversion design specification
-	NZTA Highway structures design guide
F3: 2010	NZTA Specification for pipe culvert construction
F2: 2013	NZTA Specification for pipe subsoil drain construction
AT CoP 16	Auckland Transport Code of Practice Chapter 16 Road pavements and surfacings
ACoP 4	Auckland Code of Practice for Land development and subdivision Chapter 4: Stormwater
ACoP 5	Auckland Code of Practice for Land development and subdivision Chapter 5: Water and Wastewater
NZBC E1	NZ Building Code Clause E1 Surface Water
2013/018	Hydraulic Energy Management: Inlet and Outlet Design for Treatment Devices (Auckland Council)
Cg Ver 1.1	Watercare General Civil Construction Standard (2019)
NZFS4509:2008	NZFS Firefighting water supplies CoP

OVERSEAS CODES OF PRACTICE

Document	Name & Notes
HDS 5 (2012)	Federal Highways – Hydraulic design of highway culverts



-	PPI – PE Pipe for horizontal directional drilling
CWDM (2019)	Melbourne Water - Constructed waterway design manual Dec 2019

PIPE ASSOCIATIONS PAPERS

Document	Name & Notes
PIPA POP016	Crack Resistant PE
PIPA POP005	Packaging, Handling & Storage

MISCELLANEOUS PRODUCT AND TEST STANDARDS

Document	Name & Notes
AS/NZS 1462.1:2006	Methods of test – determining dimensions of pipes and fittings
AS/NZS 1462.10:1998	Methods of test – hydrostatic pressure testing of fittings and elastomeric seal joints for non-pressure applications
AS/NZS 1462.22:1997	Methods of test – determining ring stiffness
AS/NZS 4131	PE Compounds for pressure pipes and fittings
AS 1646:2007	Elastomeric seals for waterworks purposes
NZTA 53a	Over Dimension Loads Fact sheet

OVERSEAS BODIES

TEPPFA (Europe)

<https://www.teppfa.eu/media/guides/>

PIPA (Australia)

<https://pipa.com.au/technical/pop-guidelines/>

PPI (US)

<https://www.plasticpipe.org/PPI-Home/PPI-Home/All-PPIPublications.aspx?hkey=1daa8285-87c2-4051-b283-0d0213a1e715>



OTHER DOCUMENTS

MANNINGS NUMBERS

Document	PE/PVC	Concrete
NZBC E1	0.011	0.013
NZTA P46	0.011	0.013
NZS 4404	0.008-0.009	0.009-0.012

