

Appendix H: Water supply general information

- Basic Guidelines for Sizing a Water Connection

BASIC GUIDELINES FOR SIZING A WATER CONNECTION

These Guidelines for sizing of water connections, meters and backflow requirements are any applicable to the Urban Reticulation (including Castlecliff Main), but not City Bulk Supply or Rural Schemes. (Refer to 'Water Connections & Current Charges' for current water charging costs).

Connection Type	Specific Design Required (If 'Yes' refer to Water Engineering Office)	Sizing	Metering (NB = Nominal bore)	Backflow Prevention
Domestic Standard (Urban)	Up to two units – No More than two units – Yes	All except Domestic are approved after the purpose/requirements of the connection are supplied to Council by the applicant As per Urban Water Connection Sizing table	Yes if connection is 25mm NB or greater	Unlikely
Commercial (Urban) e.g. hairdressers, dry-cleaners	Yes	Dependant on purpose e.g. domestic, fire hose, sprinklers, etc	Yes if connection is 25mm NB or greater and is usage more than 350m ³ /year	Dependant on Risk Category Refer to Backflow Risk Categories table
Industrial (Urban) e.g. Pacific Park, Tasman Tanning, etc	Yes	Dependant on purpose e.g. domestic, fire hose, sprinklers, etc	Yes	Dependant on Risk Category Refer to Backflow Risk Categories table
Horticultural (Urban & Rural)	Yes	Dependant on requirements e.g. m ³ /day, with minimum of 24hr on-site storage	Yes if connection is 20mm NB or greater	Dependant on Risk Category Refer to Backflow Risk Categories table
Fire Connections (for City Sprinkler Systems)	Yes May require on-site storage or Pressure Sustaining valve if boost pumping is required to increase pressure supplied from City reticulation	Dependant on requirements i.e. litres/minute @ 'x' kPa, after comments by Whanganui District Council, after flow test results by Sprinkler Designers	Yes if connection is 20mm NB or greater Provided in conjunction with upgrading of existing if not a new connection	Dependant on Risk Category Refer to Backflow Risk Categories table
Other Non-specific Applications	Yes	Dependant on specific design	Dependant on specific design	Dependant on Risk Category Refer to Backflow Risk Categories table

ORIGINAL INFO

URBAN WATER CONNECTION SIZING CRITERIA	Less than 10m elevation from water main	More than 10m elevation from water main
Less than 65m from water main	1 unit = 15mm 2 units = 20mm	1 unit = 20mm 2 units = 25mm
More than 65m from water main	1 unit = 20mm 2 units = 25mm	1 unit = 25mm 2 units = 25mm
NOTE: Connections for properties with more than 2 units require specific design; refer to Water Engineering office.		

REVISED INFO

URBAN WATER CONNECTION SIZING CRITERIA for up to 2 units*	Less than 10m elevation from water main	More than 10m elevation from water main
Less than 65m from water main	20mm	25mm
More than 65m from water main	25mm	25mm
* Note: Connections for properties with more than 2 units require specific design; refer to Water Engineering office.		