

## Appendix H: Supporting Materials

- 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 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	Metering (NB = Nominal bore)	Backflow Prevention
<b>Domestic Standard (Urban)</b>	Up to two units – No More than two units – Yes	As per Urban Water Connection Sizing table	Yes if connection is 25mm NB or greater	Unlikely
<b>Commercial (Urban)</b> 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 <sup>3</sup> /year	Dependant on Risk Category Refer to Backflow Risk Categories table
<b>Industrial (Urban)</b> 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
<b>Horticultural (Urban &amp; Rural)</b>	Yes	Dependant on requirements e.g. m <sup>3</sup> /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
<b>Fire Connections (for City Sprinkler Systems)</b>	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 Wanganui Water Services, 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
<b>Other Non-specific Applications</b>	Yes	Dependant on specific design	Dependant on specific design	Dependant on Risk Category Refer to Backflow Risk Categories table

**ORIGINAL INFO**

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

**REVISED INFO**

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