

Class 1

Aquatica Bath Mixers for Mitre 10

Product Disclosure Information Self-Assessment

Version: V1

Product Name	Stream, Curvato, Kiara and Sisi Bath Mixers
Product Line	STREAM, CURVATO, KIARA and SISI TAPWARE
Product Identifier	<p>Bath Mixers with Handshower (Wall Mounted) ST XBM15 (SKU 158507) ST XBM20 (SKU 158508)</p> <p>Bath Mixers without Handshower (Wall Mounted) ST XBMND15 (SKU 158343) ST XBMND20 (SKU 158344)</p> <p>Bath Mixers with Handshower (Floor Mounted) CT BSETFLOOR (SKUs 2009993, 2009994, 2009995, 2009996, 2009997) KI BSETFLOOR (SKUs 353850, 353851, 353852, 353853) SI BSETFILLER (SKU 295272)</p>

Product description

Aquatica Mitre 10 Bath Mixers (and their spare parts).

Wherever products are available in multiple colours, just one core code is listed, although the SKUs are listed for all colours.

Relevant Building Code Clauses

B2 DURABILITY B2.3.1 (i) and (ii)

E3 INTERNAL MOISTURE E3.3.5

G12 WATER SUPPLIES G12.3.2, G12.3.5, G12.3.7

G4 VENTILATION G4.3.3 (Referenced in maintenance requirements)

H1 ENERGY EFFICIENCY H1.2

Contributions to Compliance

B2.3.1 Durability: Made from brass or stainless steel with solid metal handles, the Aquatica Bath Mixers for Mitre 10 come with a 5 year residential warranty. The ceramic cartridge has a 20 year residential warranty. The handshower head and shower hose carry a 2 year warranty. Decorative finishes other than chrome are warranted for 2 years. **

All the bath mixers in blue print in the next table have a high quality European Ceramic Cartridge installed.

Only high quality german flow regulators from Neoperl are used in the Aquatica Bath Mixers with Handshower for Mitre 10. These regulators reliably limit flow to achieve the relevant water efficiency star rating under WELS for mains pressure. They are not required for low pressure installations. (The star ratings for each product are listed on the next page under H1 Energy Efficiency.)

Every single bath mixer is individually pressure tested in New Zealand prior to its dispatch for quality assurance.

Failure would be easily detected during normal use. The mixers are easily accessible for maintenance.

E3 Internal Moisture: E3.3.5 The smooth surfaces of the mixers are easy to wipe clean thereby reducing mould growth or surface contamination.

G12 Water Supplies G12.3.2 To prevent backflow of dirty bath water into the water line to contaminate the water supply, in the event that a handshower head is dropped into the bath, a special housing with a double non-return valve is supplied with each bath mixer with handshower on one end of the shower hose.

G12.3.5 All of these fixtures are intended to supply hot and cold water as required for personal washing, showering or bathing.

G12.3.7 Each mixer delivers sufficient flow for correct functioning under normal conditions. (See Conditions of Use below for pressure minimums.) Each individual mixer is pressure tested in New Zealand prior to dispatch to reduce the likelihood of leakage.

For unequal pressure environments, the mixers are set up so that high cold water pressure is less likely to backflow through the cartridge and into the hot water line, and back into the hot water cylinder, and even out onto the roof, thereby wasting water and energy. (See Conditions of Use for the details of what is supplied to achieve this.)

H1 Energy Efficiency: H1.2 All bath mixers with a handshower are covered by WELS, (the Water Efficiency Labelling Scheme), and are supplied with high quality German Neoperl regulators to reliably limit flow to achieve their relevant star ratings, which are:

<p>ST XBM15, ST XBM20, (Minimum pressure 65kPa)</p>	<p>3* Mains Pressure (9 l/min), 3* Low Pressure (9 l/min)</p>
<p>CC BSETFLOOR, KI BSETFLOOR</p>	<p>3* Mains Pressure (9 l/min),</p>
<p>NB: A WELS rating is not applicable to the following products as they don't have a handshower:</p> <p>ST XBMND15, ST XBMND20 (suitable for both mains and low pressures) SI BSETFILLER (mains pressure only)</p>	

For codes in blue above, the products have a high quality European Kerox ceramic cartridge installed, many of which include a clever yet simple anti-scald device which can be set if desired. This is both a safety feature and an energy saving device. It's a simple matter of removing the grey plastic ring on the top of the cartridge and repositioning it so that the cartridge is prevented from travelling all the way to full hot, stopping instead at whatever point in its travel is chosen as the maximum hot temperature.

Scope of Use

These mixers are intended for accommodation and residential use. They are suitable for both hot and cold water use, and all are suitable for mains pressure systems. Some of them, as shown in the above list, are suitable for low pressure environments.

Conditions of Use

The Bath mixers should be installed by a registered plumber following best practice.

All of the mixers are suitable for mains pressure systems. Only those in the above list with a low pressure WELS rating, or those with low pressure in the description after the code are suitable for low pressure systems with a minimum pressure at the mixer of 35kPa with the exception of the **ST XBM15, ST XBM20** both of which have a minimum pressure of 65kPa. For an additional charge our engineering team can alter these mixers to ensure that the water will divert to the handshower on pressure as low as 35kPa.

The operating pressure for all Aquatica tapware is between 150 and 600kPa for mains pressure and between 35 and 600kPa for low pressure. They are designed to operate under pressures up to a maximum of 1000kPa. However, there are 2 things to consider. Firstly, consider that the pressure overnight increases while taps are not being used and can easily spike to well beyond 1000kPa without a pressure limiting device installed. Secondly, consider the Building Code requirements, shown below.

Building Code Requirement - Pressure

It is now a requirement in the NZ Building Code that the minimum working pressure at any fixture is 30kPa and the maximum static pressure shall be no more than 500kPa.

Building Code Requirement - Temperature

Another Building Code requirement is that the temperature of water at personal hygiene fixtures in a home should not exceed 50°C. 45°C is the maximum in early childhood education and care centres, schools, old people's homes, institutions for people with psychiatric or physical disabilities and hospitals. (For licensing purposes for early childhood education and care centres, the Ministry of Education requires that the temperature of water delivered from taps that are accessible to children should not exceed 40°C.)

Where the mixers are suitable for both mains and low pressures, they are supplied ready for low pressure and are suitable for all pressures above 35kPa. The appropriate pressure compensating washer (PCW) is included in the box in a printed envelope to be fitted for mains pressure systems to achieve the relevant WELS water efficiency rating but is not used for low pressure installations. The PCW is fitted at the mixer end of the shower hose with the water direction towards the little black o-ring.

There are 2 reasons for installing the PCW into the mixer end of the shower hose. Firstly, because the hose is then more flexible during operation and secondly because it prevents the shower hose bearing the brunt of any build up of pressure that might occur behind the PCW.

Low pressure environments typically mean low pressure hot water and high pressure cold water. The higher pressure of the cold water can force cold water back through the cartridge, into the hot line, back into the hot water cylinder, and even out onto the roof, (thereby wasting both water and energy) unless there is a mechanism within the mixer to reduce the risk of this occurring. Those Bath Mixers which are suitable for both mains and low pressures have a high quality, german Neoperl ENT flow regulator in the cold eccentric which is designed to limit the flow on cold water to more closely match the hot. This reduces the risk of a backflow issue and also makes it easier to achieve a warm mix during operation.

Maintenance Requirements

Some of the mixers are chrome. Chromium electroplated tapware is amongst the hardest of fixture coatings. Others might be PVD, colour electroplated or powder-coated. Whatever the finish, to keep tapware looking good for longer, avoid using spray cleaners which over time can attack the finish. Instead, wipe regularly using a mild detergent and a soft damp cloth. Then rinse and wipe dry with a clean cloth.

To prevent mould growth in the bathroom, and to increase the life of all the fixtures, install a fan which draws out moisture from the room. To ensure regular use of the fan, you could ask your electrician to link the light switch to the fan. (This would fulfill obligations under the building code clause G4.3.3 to remove moisture and pathogens in the air from bathing or showering.)

Debris in a water line can damage the smooth ceramic surfaces in a mixer cartridge. This is the most likely reason for a good cartridge to fail. In that event, replacing a cartridge is not an overly technical activity and can typically be carried out by a home handyperson.

Sometimes debris in the water line can make its way into the aerator at the end of the spout of your bath mixer. You might notice the flow pattern become irregular. Simply unscrew the aerator ring, rinse out and reinstall. There are generally flats on the aerator ring for grip. Most often this can be unscrewed by hand, just with a piece of rubber. If a wrench is needed, still use the rubber to prevent metal-on-metal damage to the aerator ring.

Warnings and Bans

This product line is not subject to any warning or ban under section 26 of the Building Act 2004.

Contact details

Manufacture locations	New Zealand, China, Germany, Hungary
Legal and trading name of manufacturer and importer	AQUATICA NZ LIMITED
Manufacturer/Importer Address for Service	9 Saunders Place, Avondale Auckland 1026
Manufacturer/Importer Website	www.aquatica.co.nz
Manufacturer/Importer NZBN	9429000023962
Manufacturer/Importer Email	info@aquatica.co.nz
Manufacturer/Importer Phone Number	09.828.2068

Building code performance clauses

All relevant building code performance clauses listed in this document:

B2 DURABILITY

B2.3.1 *Building elements* must, with only normal maintenance, continue to satisfy the performance requirements of this code for 5 years if (i) The *building elements* (including services, linings, renewable protective coatings, and *fixtures*) are easy to access and replace, and (ii) Failure of those building elements to comply with the building code would be easily detected during normal use of the building.

E3 INTERNAL MOISTURE

E3.3.5 Surfaces of *building elements* likely to be splashed or become contaminated in the course of the *intended use* of the *building* must be *impervious* and easily cleaned.

G12 WATER SUPPLIES

G12.3.3 A potable *water supply system* must be - a) protected from contamination; and b) installed in a manner that avoids the likelihood of contamination within the system and the *water main*; and c) installed using components that will not contaminate the water.

G12.3.5 Sanitary fixtures and sanitary appliances must be provided with hot water when intended to be used for a) utensil washing; and b) personal washing, showering or bathing.

G12.3.7 *Water supply systems* must be installed in a manner that a) pipes water to *sanitary fixtures* and *sanitary appliances* at flow rates that are adequate for the correct functioning of those *fixtures* and *appliances* under normal conditions; and b) avoids the likelihood of leakage; and c) allows reasonable access to components likely to need maintenance; and d) allows the system and any backflow prevention devices to be isolated for testing and maintenance.

H1 ENERGY EFFICIENCY

H1.2 *Buildings* must be *constructed* to achieve an adequate degree of energy efficiency when that energy is used for a) modifying temperature, modifying humidity, providing ventilation, or doing all or any of those things; or b) providing hot water to and from sanitary fixtures or sanitary appliances, or both.

G4 VENTILATION (*only with reference to Maintenance Requirements*)

G4.3.3 Buildings shall have a means of collecting or otherwise removing the following products from the spaces in which they are generated: **b)** [Moisture] from laundering, utensil washing, bathing and showering and **h)** bacteria viruses or other pathogens.

****** *The warranties referred to in this document are residential warranties. Commercial warranties can be found as part of Aquatica's full warranty document available at www.aquatica.co.nz.*