

# Billi™



**WELL Building Standard**  
Filtration Requirements

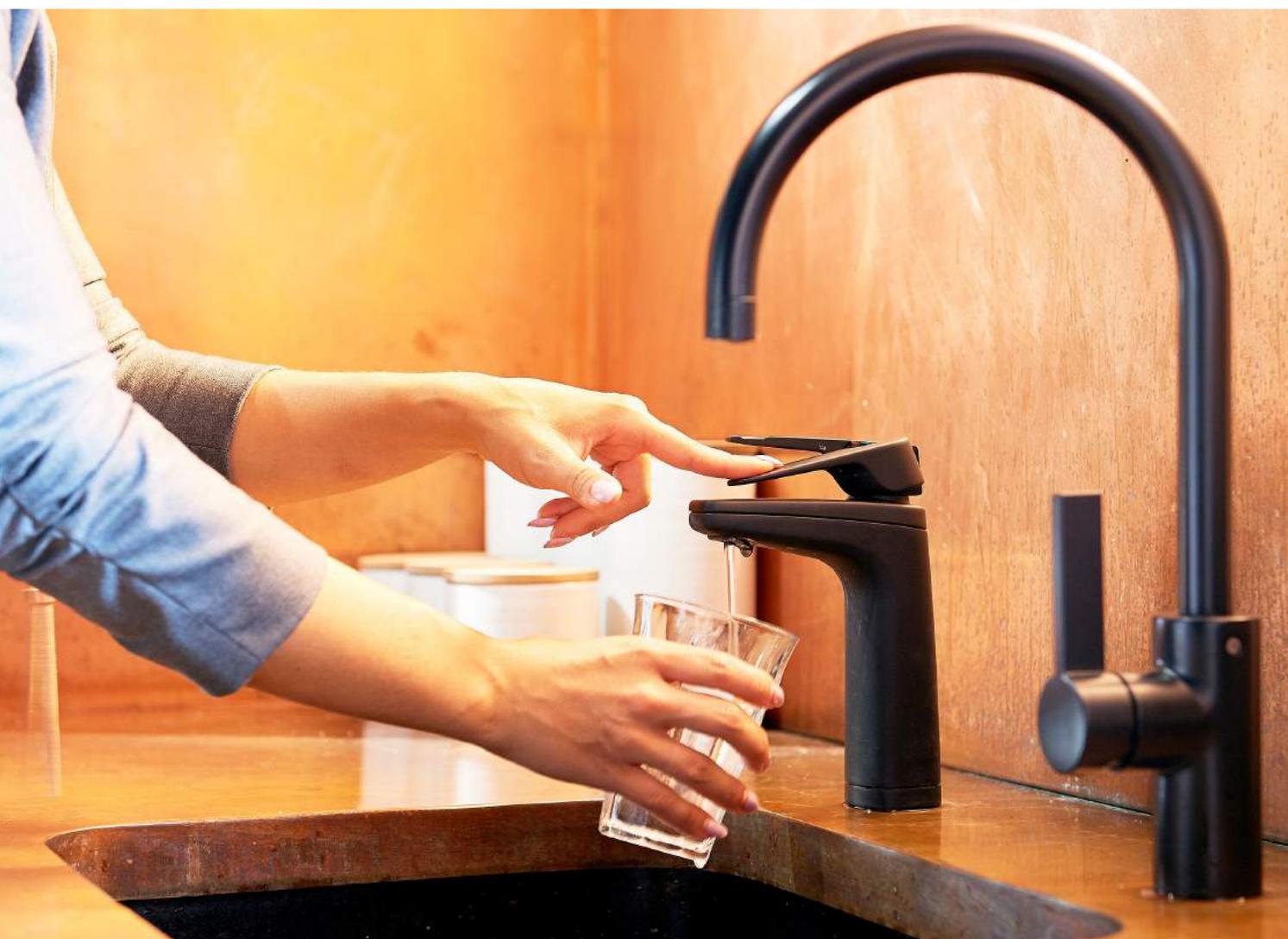
We make the assumption that the water coming into a building meets the national requirements of potable water. This document deals with the water from a Billi system and doesn't cover whole building treatment.

Where the WELL Building Standard parameters are tighter than national requirements, we have given advice on further treatment options.

### SECTION 30 – Fundamental Water Quality

*“To assess water safety under a variety of circumstances, this feature requires performance tests for total coliform bacteria and turbidity: two measures that serve as an indicator for the possible presence of many other harmful contaminants.”*

Parameter	Well Water Limits	National Limits	Notes
Total Coliforms	0	0	
E. Coli	0	0	
Turbidity	< 0.3 NTU	< 4 NTU at tap, < 1 NTU at treatment works	The particulate reduction capability of Billi 911012 filter will effectively reduce turbidity to below limits





## SECTION 31 – Inorganic Contaminants

*“Many dissolved metals that contaminate water supplies can be acutely or chronically toxic. Contamination varies widely by geographic location and water source, spurring the need for localized testing. Exposure to even small amounts of inorganic contaminants such as lead, mercury and arsenic have been linked to the development of various cancers, neurological damage, and other adverse health effects.*

*This feature sets maximum safety limits for several inorganic contaminants in drinking water. If necessary, reverse osmosis (RO) systems or Kinetic Degradation Fluxion (KDF) filters can remove dissolved metals.”*

Pentair have a wide range of RO systems and employ the use of KDF in a small number of premium drinking water filters.

Parameter	Well Water Limits	National Limits	Notes
Lead	< 0.01 mg/l	< 0.01 mg/l	We have a range of lead specific filters as well as RO and KDF
Arsenic	< 0.01 mg/l	< 0.01 mg/l	
Antimony	< 0.006 mg/l	< 0.005 mg/l	
Mercury	< 0.002 mg/l	< 0.001 mg/l	
Nickel	< 0.012 mg/l	< 0.02 mg/l	RO will reduce, KDF may reduce.
Copper	< 1 mg/l	< 2 mg/l	RO will reduce, KDF may reduce.

## SECTION 32 - Organic Contaminants

See link below to National standards to compare. Note: WELL Building figures are all quoted in milligrams, many of the national standards are in micrograms so you will have to multiply milligrams x 1000 to get a microgram comparison.

## SECTION 33 - Agricultural Contaminants

See link below to National standards to compare. Note: WELL Building figures are all quoted in milligrams, many of the national standards are in micrograms so you will have to multiply milligrams x 1000 to get a microgram comparison.

## SECTION 36 – Water Treatment

Billi filters meet the requirements prescribed here.

## SECTION 37 – Drinking Water Promotion

Key points are:

*“Access to clear, good-tasting water helps promote good hydration. Many otherwise healthy people unknowingly suffer from mild dehydration, resulting in avoidable symptoms like constipation, dry skin and headaches. Improving the taste and appearance of tap water encourages increased water consumption and reduces reliance on bottled water.*

*This feature sets limits for dissolved minerals that can compromise the taste and appearance of water and requires that drinking water is easily accessible throughout the building.”*





## Part 1 Drinking Water Taste Properties

Water from all faucets and drinking fountains meets the following requirements:

Parameter	Well Water Limits	National Limits	Notes
Aluminium	< 0.2 mg/l	< 0.2 mg/l	
Chloride	< 250 mg/l	< 250 mg/l	
Manganese	< 0.05 mg/l	< 0.05 mg/l	
Sodium	< 270 mg/l	< 200 mg/l	
Sulfates	< 250 mg/l	< 250 mg/l	
Iron	< 0.3 mg/l	< 0.2 mg/l	
Zinc	< 5 mg/l	N/A	Typically Zinc would be leached from galvanized pipes and fittings which aren't acceptable under local water by laws.

View NSF test results for Billi filtration here: <http://info.nsf.org/Certified/DWTU/Listings.asp?CompanyName=Billi&>

The WELL building limits are based upon the USA "EPA" requirements, in the UK, we have both European standards, and national standards where it is decreed locally a standard should be higher, in general all WELL standards are at or more lenient that local UK regulations, if you wish to see the full list of parameters you can find them if you follow the following link: <http://www.legislation.gov.uk/ukxi/2016/614/contents/made>

If you require any further detail, please do get in contact.

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