



137 Great North Road, Auckland

Solar Panels

“80 solar panels will provide an estimated 46183kWh every year. That's enough electricity to toast around 1.34 million slices of bread.”

The estimated kWh per year has been provided by Kiwi Solar in their PVsyst - Simulation report that estimates the total amount of electricity the panels will produce in a year.

The equivalent of toasting 1.34 million slices of bread has been calculated by taken the average wattage of four toasters as per their specifications made available online which came to 1,154W and a figure of 216 seconds toasting time as per [a study done by British food consultant Dr Dom Lane](#).

Water Tank

“Our water tank can hold 10kL of rainwater. That's enough to provide the average daily water use for 67 Aucklanders.”

Watercare, Auckland's water utility, states that a study of water use in Auckland found people typically use between 140 and 170 litres per person per day. - [Residential FAQs](#). Dividing 10kL by 155 litres (the midpoint between 140 - 170) equals 67.

Landfill Diversion

“Over 85% of construction materials, totalling 175tonnes was diverted from landfill. That's the equivalent of 28 Americas Cup yachts.”

The landfill diversion weights and percentages were provided by waste management provider Green Gorilla.

The rules relating to the design of an Americas Cup yacht specify an AC75 (the name of the boat design) the boat must weigh between 6,160 to 6,200 kg, and the crew, dressed and equipped, must weigh between 712 and 740 kg. - [AC75 CLASS RULES AND TECHNICAL REGULATIONS PUBLISHED - AC75 CLASS RULES AND TECHNICAL REGULATIONS PUBLISHED - AC75 CLASS RULES AND TECHNICAL REGULATIONS PUBLISHED - AC75 CLASS RULES AND TECHNICAL REGULATIONS PUBLISHED - 38th America's Cup](#).

Dividing 175,000kgs (175 tonnes) by the midpoint for just the boat weight (6,180kgs) equals 28.

Carbon Emissions

“Designed to achieve a 60% reduction vs the average in embodied carbon (that's what is polluted into the atmosphere to make the building materials).”

“Designed to achieve 54% less carbon emissions across the buildings whole life compared to the average. That's the equivalent of flying from Auckland to Wellington 284 time.”

All carbon data and equivalents were provided in the Life Cycle Assessment report of the building by Capana Group.



Still have questions or queries? Just get in touch with us, we're here to help in any way we can.

**P. 09 522 2636
info@samson.co.nz**