Sustainable Design Statement

November 2023

The design has been developed in accordance with the sustainable design principals set out in the City Plan 2019-2040. The scheme has been designed to reduce energy demand and maximise the use of low carbon energy sources. The refurbishment of the apartment addresses these issues in 3 main areas:

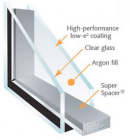
Thermal insulation .

Electrical lighting and kitchen appliances.

Efficient water usage.

The external walls will be enhanced with insulated plasterboard on the inside face. New aluminium framed double-glazed argon-filled doors will act as a shield against cold weather, reduce heat loss in winter and reduce the need for fuel to heat the property. This increased insulation will benefit the environment in the form of reduced emissions. These measures will enhance the overall thermal performance of the apartment and save energy accordingly.

The existing incandescent lighting will be replaced with LED lighting which is more energy efficient, produces zero toxic elements, requires less fixtures, and has a longer life span. LED lights are up to 80% more efficient than fluorescent and incandescent lights. In addition, new energy efficient kitchen appliances will be used.



Water saving measures will included in the design of kitchens and bathrooms with water aerators on taps, and environmentally-friendly thermostatic showers. WC's will have dual flush water saving controls. Both water and energy consumption will be reduced.