

Energy Statement – Unit 7, Braybon Business Park, Burgess Hill

Description

This energy statement has been prepared to support the planning application for the proposed changes to the façade of Unit 7 Braybon Business Park. The proposed changes will increase the energy efficiency of the building significantly through the installation of double-glazed windows and doors, and a Kingspan insulated overcladding system.

Existing Structure

The existing structure has three façades. The front façade has single glazed Crittall windows on ground and first floors with plastic panels below. The two return façades are brick infill between concrete columns with a combination of single and double glazed windows.

Proposed Changes

The proposed works are to overclad the exterior façades with an integrated insulated panelling system. The product to be used is a Kingspan QuadCore KS1000RW Wall Panel system. The panels will have a core thickness of 40 mm which gives a U-Value of 0.47 W/sq m K. This offers significantly better insulation than the current make up of the building and will enhance the energy efficiency of the building in tandem with the existing structure.

The product is produced in an environmentally conscious manner in the UK and is certified to BES 6001 'Good'. QuadCore insulated panel systems have Environmental Declarations in accordance with the requirements of EN 15804 + A2: 2019

At first floor, the front façade works will replace the existing single glazed Crittall windows with new double glazed windows and doors.

At ground floor the single glazed Crittall windows will be overclad with the insulated panelling system.

The return façades will be overclad with the insulated panelling and the windows upgraded to double glazed units where required.

Conclusion

The proposed works will improve the energy efficiency and heat retention of the building. The existing structure will be fitted with modern insulating products which will significantly reduce heat loss.