



JAMES DURRANS AND SONS LTD

SUSTAINABILITY & ENERGY STATEMENT

FOR

PROPOSED NEW OFFICE DEVELOPMENT

SAVILLE LANE

THURLSTONE

MAY 2012



INTRODUCTION

The purpose of this document is to accompany the planning application and set out the standards to maximise energy efficiency through design.

This statement will also identify renewable energy sources to be used within the development.

The development consists of a three storeys of office accommodation including staff amenities and welfare facilities, and a basement floor with integrated car parking facilities and servicing areas.

The building has been designed inline with Barnsley MBC planning requirements to achieve a BREEAM rating of Very Good.



RENEWABLES

It is proposed that a minimum of 10% of the energy demand of the site shall be provided by renewable energy generated on site.

The renewable energy shall be generated on site via Air Source Heat Pump technology.

Office areas shall be simultaneously heated and cooled by a series of cassette type VRF systems positioned in the ceiling grid in each area.

Ancillary area heating and the domestic hot water shall be generated from an air to water high temperature air source heat pump assembly.

Deep plane and internal office areas shall be ventilated by heat recovery ventilation systems supplying and extracting air to the various areas.



LIGHTING

Lighting to the development shall be via high efficiency T5 type fittings.

The lighting shall be complete with controls for daylight dimming and areas such as circulation or toilets shall be complete with PIR control.

Any external lighting shall be done via high efficiency fittings and the lighting scheme shall be a 'dark sky' type scheme.

POWER SUPPLY

Electrical power to the site will be provided by connection to the grid.

Suitable control systems should be investigated to improve on energy usage and to reduce running costs.



