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WRENBRIDGE HAMELIN PAPERBRANDS RED LODGE – UK

Project presentation:

Cambridge based developer, Wrenbridge Ltd, awarded GSE with the construction of a UK Head office and distribution centre for Hamelin Paperbrands, a leading stationery products supplier in the UK.

Hamelin Paperbrands will be the first confirmed occupier on the Wrenbridge Kings Warren Business Park in Red Lodge, Suffolk.

Technical description:

The development includes a two storey head office building with attached single storey warehouse.

- Warehouse area: 10,328 sq m
- Office Area: 978 sq m (ground floor and first floor)
- Total surface area: 11,527 m².
- Goods in and goods out yards.
- 89 car parking spaces for employees and visitors.
- 10 dock levellers to accommodate double deck trailers (6 for goods in and 4 for goods out)
- 2 level access doors.

Project duration: 12 Nov 07 to 3 June 08



Construction Architect: GSE 3D Design
Concept Architect: SMC Covell Matthews
Civil & Structural Engineers: Rodgers Leask
M&E Engineers: Orpheus Consulting Engineers
Year of construction: 2008



Record energy performance EPC B rating



Net zero CO₂ emissions

A 0-25

B 26-50

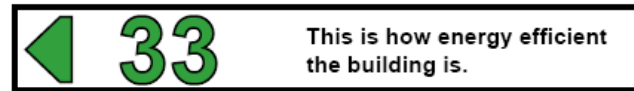
C 51-75

D 76-100

E 101-125

F 126-150

G Over 150



GSE are proud to announce that record performance on air tightness was achieved. GSE's detailed engineering and management of the envelope construction achieved class leading performance of 1.58m³/hr/m² at 50 Pa air permeability.

This is understood to be the highest recorded level for a building of this size and the third highest recorded by the specialist company since the air testing of buildings started in 2003 and represents an 84% reduction on building control requirements.

This excellent performance coupled with other features will allow for the building to be awarded with an Energy Performance Certificate with an exceptional Energy Efficiency rating of 33 (B rating).



Sustainable development

The technical teams at GSE focused on delivering an increased efficiency and sustainable solution ensuring that the building was constructed to minimise running costs and reduce its operational carbon footprint.

The B rated development includes the following:

- High efficiency glazing exceeding building control provision by 21%. This choice of glass maximises natural light penetration and reduces solar gain.
- Optimisation of the building utilising natural ventilation and some cross ventilation.
- Increased density of roof lights to the marshalling area to maximise the use of natural light.
- Installation of high frequency lighting with movement sensors where appropriate.
- Optimised design minimising the need for comfort lighting or air conditioning system installations.
- Water conservation.
- Surface water soak away.
- High efficiency heating systems exceeding building control requirements by 16%.
- Computer room cooling that exceeds building control requirements by 75%.
- Domestic hot water that exceeds building control requirements by 20%.

