



Peter Wade Consultancy
CONSULTING ENGINEERS

DESIGN STATEMENT

REF:- PWC/2116-03

**PROPOSED INSTALATION OF SOLAR PHOTOVOLTAIC PANELS
TO ROOF OF:**

**Haywood & Padgett
Carlton Industrial Estate
Shawfield Road
Barnsley
S71 3HS**

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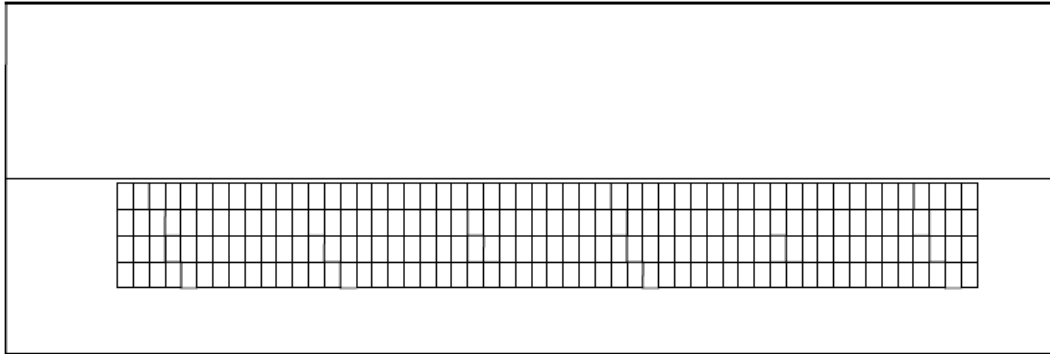
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1. Description of the scheme

- 1.1 The planning application associated with this statement is to fix solar photovoltaic panels to the roof of an industrial building, at the address indicated on the front cover, as shown below.



- 1.2 The structure of the premises is a large steel framed building clad externally with steel cladding to the walls and roof.
- 1.3 The panel arrangement is shown indicated in blue on the above plan. The panels do not extend to within 1 metre of the roof perimeter.

2. Green Energy Background

- 2.1 Recent changes to Government legislation have highlighted the need to reduce carbon emissions from burning carbon fuels. Solar photovoltaic panels are an ideal form of decentralised renewable energy for both heating and cooling.
- 2.2 The panels on the roof will not be visible from other buildings at lower level. They absorb in the order of 97% of the radiation/ sunlight so the risk of reflection nuisance from either glint or glare is very low. A photograph of a typical panel arrangement is shown below.



- 2.3 The panels are attached to a 50mm aluminium frame which is fixed directly to the roof cladding. The panels are 1500mm x 1000mm x 40mm (depth). The projection of the face of the above the roof is 100mm or thereabouts.



Rear view showing fixing to sub frame. The horizontal frames are fixed to the roof cladding. The vertical and sloping frames are for display purposes only.

3. Site Conditions

- 3.1 Landscaping of the site is not affected by the proposed works which are located at high levels. A landscaping statement is therefore not necessary.
- 3.2 The proposed works do not affect the rainwater runoff from the roof nor do they pose any risks due to flooding. A flood risk assessment is therefore not necessary.
- 3.3 It is not proposed to alter the external elevations of the building therefore an elevation drawing is not submitted.
- 3.4 There is no increase in floor space
- 3.5 A structural assessment of the building is to be undertaken by a Structural Engineer prior to a Building Regulations submission.

4. Documents

- 4.1 A location plan is submitted which shows the location of the site.
- 4.2 A site plan is submitted which shows the location of the solar panels to be fixed to the roof.
- 4.3 All the works are external, above the roof of the building, there are not to be any works inside the building and floor plans also have not been submitted.
- 4.4 Accordingly the planning fee has been calculated in accordance with DCLG Circular 04/2008: Planning related fees. The works would be Category 2 – Non-residential building works for a development creating no new floor space for which the current fee is £170.

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