

26/06/2023

To Technical Support Team / Manchester City Council

Ref: 137312/P14J/2023**Location:** Unit 1, Reliance Street Trading Estate, Reliance Street, Manchester, M40 3AG

Notes regarding minimising appearance and glint/glare

Solar panels will be installed on 12° shallow pitched roof. The solar PV equipment will, so far as is practicable, be sited to minimise its effect on the external appearance of the building and the amenity of the area. The solar panels would be visible from certain heights, however, would not be prominently visible from the public realm or street level due to the nature of the shallow pitched roof.

Solar panels are designed to absorb light as much as possible for efficiency reasons. This is because reflected light reduces the overall performance - any reflected light cannot be converted into electricity. Solar panels have at least one layer of anti-reflective coating to reduce light reflection. The chosen solar panels are dark in colour to absorb light and have anti-reflection technology - which minimises glare from the glass. Solar panels have less reflectance than many other everyday things such as vegetation, concrete, and snow - panels today reflect as little as 2% of the incoming sunlight. Given basic light reflectivity assumptions, the angle of reflected light is most likely to be directed sufficiently skyward that it would go over the tops of surrounding structures.

As a result of the shallow roof pitch and modern solar panels, glint and glare will be minimal.



Figure 1: Proposed view from above

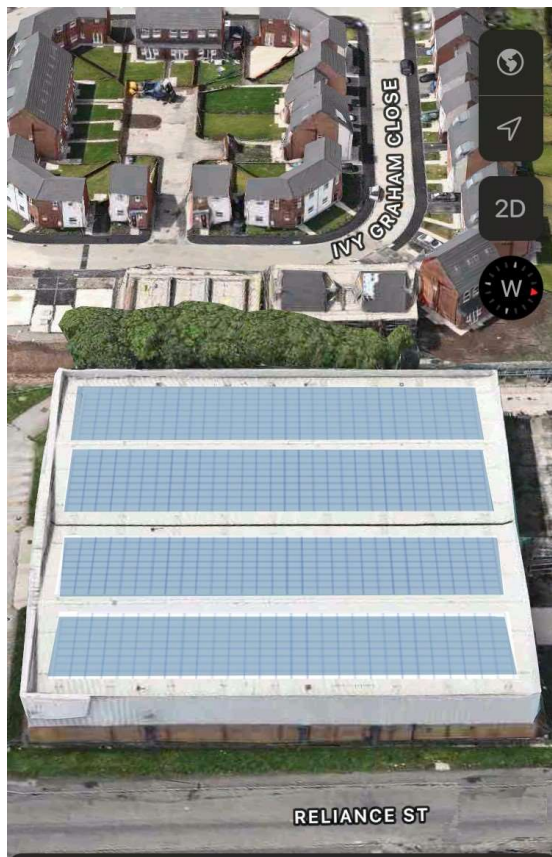


Figure 2: Proposed view from above



Figure 3: Proposed building from the street level

Kind regards,

Monika Vitaite

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Planning Designer