

Vinci Facilities, Whiston Hospital

David Downs, by email:

David.Downs@vincifacilities.com

21st October 2025
AJP Ref: 225-314

RE: Installation of PV cells on main hospital roof

Dear David,

Following our site visit on 20th October 2025, during which we accessed the roof and discussed proposals to install PV panels, we have completed a desktop study of the information provided to us.

Based on the design report from K2 Systems, the company which designs mounting systems for PV cells, the overall self-weight of the proposed PV system inclusive of all ballast is less than 0.2kN/m². The roof is a flat concrete construction carrying an insulated buildup topped with loose stone ballast. Permanent access is achieved through lifts and access doors, and the roof is used to house small areas of plant, and window cleaning gantries. The building is less than 20 years old, and will have been designed in accordance with modern codes of practice.

The roof will have been designed to carry an imposed load of at least 1.5kN/m², probably more. On this basis we have no concerns applying PV panel loads to the roof in conjunction with the maintenance/access loads associated with its installation, and snow loading.

I trust this gives you the comfort needed to progress with this project.

Yours sincerely,

Michael Carr
MEng(Hons), CEng, MStructE
Associate

consulting
engineers