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Your Ref: P/2018/0684

Chkd: kbb

12th March 2019

EMAIL ONLY

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Dear Maurice,

Re: Henblas Square, Wrexham – Roof Garden Comments

As part of the building conversion, it is proposed to utilise the original first floor atrium and create a roof garden. As part of these works, the introduction of two planters are proposed.

Based on the original design of the building and the existing construction, it is considered that the existing external first floor area was designed as a roof garden and provides resistance against the traditional imposed loads for such elements (3.0 kN/m²).

Based on the construction of the planters and their geometry, it is considered that the area load subjected to the floor is not greater than the designed imposed load as noted above. Therefore, we are happy that the proposed roof garden area meets current design standards and codes (BS EN 1991 1.1.1 Eurocodes: Actions on Structures).

As part of the continued use of the roof garden, it is considered that a regime for inspection and maintenance should be undertaken. The integrity of the waterproof membrane should be inspected yearly. This inspection should look to identify any comprised areas that will reduce the integrity of the membrane and potentially allow water to ingress. Subject to the findings of the investigation, repair works should be undertaken to maintain the membranes integrity.

We trust that the above meets with your requirements at this stage. However, in the meantime if we can provide you with any further information or assistance then please do not hesitate to contact us.

Yours sincerely

Kyle Sutcliffe BSc (Hons) CEng MStructE AMICE
Associate

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