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**Richard Tant Associates**  
Consulting Civil & Structural Engineers  
54 Lisson Street  
London NW1 5DF  
T: 020 7724 1002  
F: 020 7224 8883  
E: info@richardtantassociates.com

Sam Cooper  
E2 Architecture + Interiors  
The Design Studio  
27 Holywell Row  
London EC2A 4JB



Dear Sirs,

**Drill Hall  
Structural Assessment of Existing Roof Trusses**

Further to our site visits I can confirm the existing roof truss is supporting a section of single glazed plain glass and a section of concrete tiles. The truss appears in fair structural condition.

Detailed analysis shows the truss is working near capacity based on historic steel stresses, however the overall lateral stability system is significantly inadequate based on today's code requirements.

We confirm that if discrete diagonal cross bracing is added to a bay then the lateral stability issue would be resolved in accordance with today's standards.

We also confirm if the singled glazed panels are replaced with the as specified heavier units (36kg per meter squared) and the existing concrete tiles are replaced with the as specified lighter (20kg per meter squared as laid) slates the stresses within the truss system are no greater than existing and the existing trusses will be structural sound.

We understand the support of the new 'Crown' section of the roof will require confirmation after the deflections limits are provided by the glazing specialist.

We trust the above is clear and acceptable to you, if you have any questions please contact me to discuss.

Yours faithfully

Richard Tant  
BEng(Hons) CEng MStructE