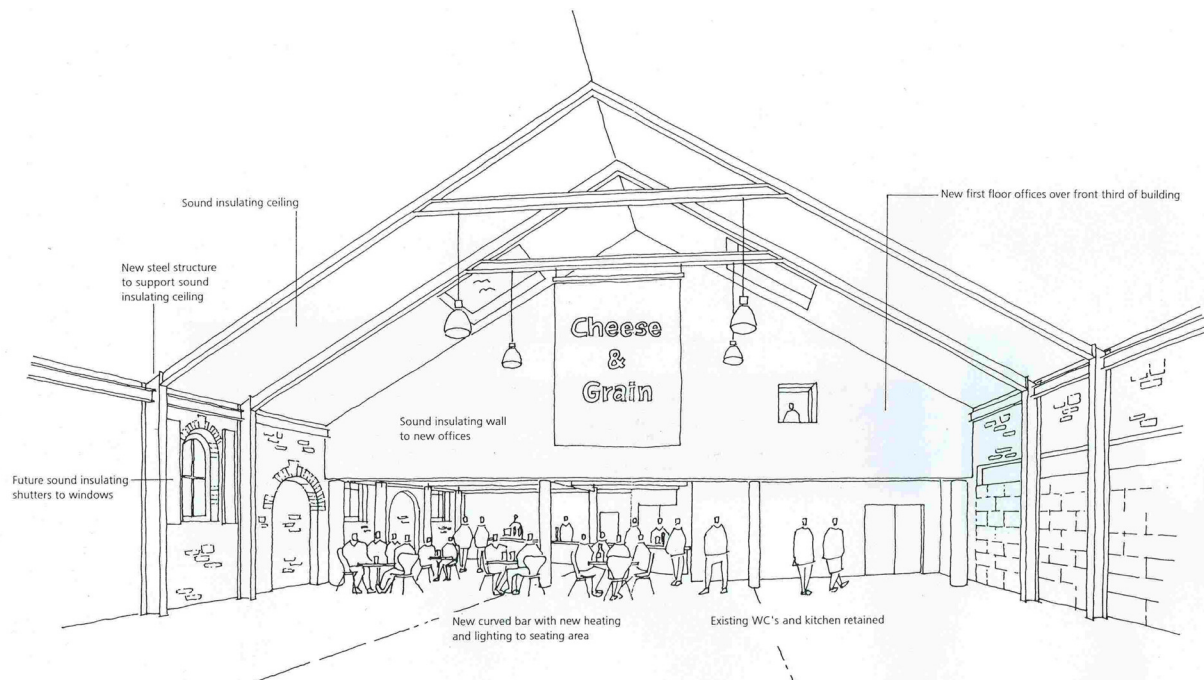




Cheese and Grain Warehouse, Frome, Somerset

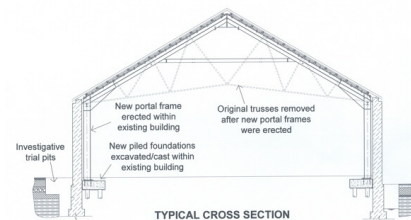


This 53m long x 18m wide building was originally constructed in the 1800s and is known locally as the Cheese and Grain Warehouse.

Its current use is to stage live performances by rock groups and associated musical events. It became necessary to reduce the noise levels emanating from the building and acoustic consultants recommended the fixing of new heavy acoustic liners to the underside of the roof. Unfortunately, the roof which comprised the original very lightweight steel trusses spanning between the supporting walls could not carry the extra loading.

Time constraints and costs ruled out demolishing the building so it was necessary to strengthen the existing roof in situ. After studying alternative methods it was decided to install new steel portal frames alongside each of the 13 original trusses and to remove the original trusses only when the new portal frames had taken up the roof load.

On site, work was complicated by the need to use cantilever base foundations off piles.



It was necessary to strengthen the existing roof in situ. New steel portal frames were installed alongside the original trusses.

KB2 Consulting Civil & Structural Engineers

Providing engineering certainty by delivering intelligent designs, minimising project risk and applying principles of sustainability.

www.kb-2.co.uk

