

CASE STUDY: MAY04/A

LIGHTWEIGHT KOOLDUCT NO. 1 CHOICE FOR LLOYDS NO.1 BAR

The lightweight qualities of the Kingspan Koolduct System of pre-insulated ducting, the latest in air ducting technology, served up the ideal solution for the new Lloyds No 1 Bar at Chichester, one of JD Wetherspoons chain of highly popular pub/restaurants.

The exciting new venue has been created from an existing single storey steel frame structure. The structural loading of this type of building do not normally have a service load capacity that permits a high density of ductwork in conjunction with a suspended ceiling.

M&E Consulting Engineers Mark Anthony Partnership Ltd, solved the problem by selecting the Kingspan Koolduct System because it is considerably lighter than sheet metal ducting. Also, choosing this System assisted in the detailed loading calculations that were necessary for this project.

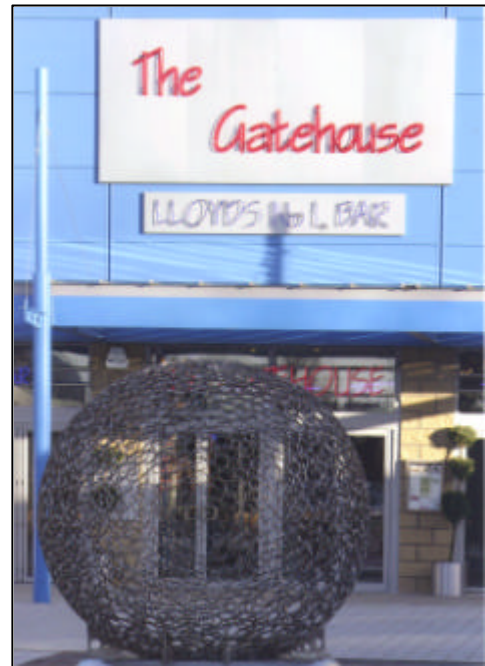
Mark Anthony Partnership Ltd, confirmed that the service load capacity of a steel frame structure of this type with a suspended ceiling meant that traditional sheet metal ducting would have been far too heavy. Also, the insulation cladding that would have been far too heavy. Also, the insulation cladding that would be required would have further added to the load.

Consequently the Kingspan Koolduct System, which is an eighth of the weight of metal ducting and is already insulated by the nature of its construction, was chosen. The System proved to be of a comparable expense to that of sheet metal ducting because the ease of installation resulted in a considerable saving in labour costs.

A total of 500 square metres of the lightweight yet strong Kingspan Koolduct System was installed by registered fabricator Eagle Fabrications throughout the building on the upper levels.

As part of Kingspan Insulation's commitment to combine product innovation with social responsibility Kingspan Koolduct now has zero Ozone Depletion Potential (zero ODP) as standard, being fabricated from CFC/HCFC-free rigid phenolic insulation panels. The panels are faced with reinforced aluminium foil on both sides making Kingspan Koolduct Zero ODP very durable and also aesthetically pleasing when used in open view applications.

Other benefits of the 'complete system technology' enhance its appeal to specifiers. Unlike traditional sheet metal ducting, which needs to be lagged with insulation as a second application, Kingspan Koolduct zero ODP requires only a single fix installation, making it a high speed option for projects where time is critical. The System's low level of air leakage and superior insulating properties can result in electrical consumption savings. With the Kingspan Koolduct zero ODP System, ventilation air flows over aluminium surfaces and does not have contact with any material containing loose fibres, making it ideal for high specification projects.



Rigid phenolic insulation offers several further advantages, including excellent fire resistance with negligible smoke emission and first class moisture resistance.

A CIBSE accredited CPD presentation – which addressed key issues such as running costs and environmental implications for all insulated related applications – is available from Kingspan Insulation Limited.

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