CASE STUDY: JAN 03

KINGSPAN KOOLDUCT STRIKES THE RIGHT NOTE FOR CAMBRIDGE UNIVERSITY'S FACULTY OF MUSIC

The revolutionary Kingspan Koolduct air ducting technology was in perfect tune with the demands of a prestigious £1.5 million project to completely refurbish the Cambridge University Faculty of Music.

The world-renowned centre of learning excellence includes a concert hall and conference centre as well as firs class study facilities such as rehearsal rooms and a new state of the art recording studio.

Concerns about the ability of the structure's roof to support the weight of traditional sheet metal ducting made the lightweight yet strong pre-insulated Kingspan Koolduct the ideal solution.

A total of 500 square metres of Kingspan Koolduct was installed by Environair Systems Ductwork Contractors who worked closely with the Consulting Engineers, Buro Happold, and the Mechanical Contractor, Knights Warner based in Kings Lynn. Environair Systems pre-fabricated the system so that the Koolduct was delivered ready for installation.

Nick Reeve, of Knights Warner, said: "The additional load that would be placed on the existing ceiling within the recital room by the suspended ducting was a critical issue in this project and that is why Koolduct was chosen as the preferred system.

"Most of the Koolduct was installed in the plant room, but there were areas where space was severely limited, such as the void above the new recording studio where the compact qualities of Koolduct made it possible to install additional acoustic lagging within this extremely confined area."

Kingspan Koolduct is constructed from Kooltherm CFC-free rigid phenolic insulation panels faced with reinforced aluminium foil on both sides and a CFC / HCFC-free version with zero Ozone Depletion Potential is also available. Unlike traditional sheet metal ducting, which needs to be lagged with insulation as a second operation, Koolduct provides a single fix fast track installation with no lagging required.

Other benefits of Kingspan Koolduct's 'complete system technology' that enhance its appeal to specifiers is the products extremely low level of air leakage and superior insulating properties that can result in electrical consumption savings. In addition, the air stream in the system's hermetically sealed duct flows only across aluminium and has no contact with any loose fibres, making Koolduct ideal for use in hospitals, food and drink processing industries, the pharmaceutical industry and anywhere else where fibrous products are not acceptable.

As well as being CFC-free, rigid phenolic insulation offers several further advantages, including excellent fire resistance with negligible smoke emission and first class moisture resistance.

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EPFA
EUROPEAN PHENOLIC FOAM ASSOCIATION

Association House, 99 West Street, Farnham, Surrey GU9 7EN
T: +44 (0)1252 739148 F: +44 (0)1252 739140
info@associationhouse.org.uk
www.epfa.org.uk