



The Kingspan **KoolDuct**® System

SWIMMING POOL APPLICATIONS

The *Kingspan KoolDuct*® System is an advanced and innovative pre-insulated rectangular HVAC ductwork system, which is installed in a single-fix.

The ambient air in swimming pools does not affect the integrity of ductwork fabricated from The *Kingspan KoolDuct*® System, as proven by numerous and successful installations over the last 20 years.

The *Kingspan KoolDuct*® System is usually constructed without any additional anti-corrosive treatment which makes it the most cost effective duct solution for swimming pool and high humidity environments. The System has many benefits; it is lightweight, provides faster installation speeds and can achieve the best air tightness Classes C and D.*

The *Kingspan KoolDuct*® System comprises premium performance *Kingspan KoolDuct*® panels, fabrication methods, coupling systems and a complete line of accessories to produce pre-insulated rectangular ductwork in sections of up to 2.95 m long. *Kingspan KoolDuct*® panels have a non-fibrous insulation core, which minimise the risk of loose fibres entering the airstream through the ductwork.

The *Kingspan KoolDuct*® System can be constructed with no ferrous couplings, allowing the ducting system to remain strong and aesthetically pleasing. For this reason, Kingspan Insulation recommends the aluminium grip and tiger clip coupling systems for use in swimming pool applications.

Although not normally reported, in high humidity environments there is a possibility that cold bridging may result in the formation of condensation on the coupling system profile. In order to reduce this happening, for the aluminium grip coupling system, it is advised that the coupling points be externally insulated with strips of *Kingspan KoolDuct*® panel.

The *Kingspan KoolDuct*® System is ideal for both refurbishment and new build projects.

Please contact us for further information about using The *Kingspan KoolDuct*® System for your swimming pool or high humidity project.

* BS EN 1507: 2006 (Ventilation for buildings. Sheet metal air ducts with rectangular section. Requirements for strength and leakage), BS EN 13403: 2003 (Ventilation for buildings. Non metallic ducts. Ductwork made from insulation ductboards) and BESA DW/144 (Specification for sheet metal ductwork).



Project: Gloucester Leisure Centre



Kingspan Insulation Ltd

Pembridge, Leominster, Herefordshire HR6 9LA, UK
Castleblayney, County Monaghan, Ireland

UK

Tel: +44 (0) 1544 388 601 Fax: +44 (0) 1544 388 888
email: info@kingspaninsulation.co.uk

Ireland

Tel: +353 (0) 42 979 5000 Fax: +353 (0) 42 975 4299
email: info@kingspaninsulation.ie

Technical Advice

Tel: +44 (0) 1544 387 382 Fax: +44 (0) 1544 387 482
email: hvactechnical@kingspaninsulation.co.uk

www.kingspaninsulation.co.uk
www.kingspaninsulation.ie

© Kingspan, KoolDuct and the Lion Device are Registered Trademarks of the Kingspan Group plc in the UK, Ireland and other countries. All rights reserved.

Registered in England & Wales, No. 01882722.

Registered Office: Pembridge, Leominster, Herefordshire HR6 9LA, UK. VAT GB428602456.

Registered in Ireland, No. 152775.

Registered Office: Bree Industrial Estate, Castleblayney, Co. Monaghan, Ireland. VAT IE6550175J.