There is simply no duct like it in the world. Thermaduct combines the latest air distribution technology with a choice outdoor weather barrier to create a duct that offers the highest R-value and lowest air leakage rates in the industry. Unsurpassed performance was the goal to create a duct that can not only deliver every cubic foot of air it is fed, but to treat the air with the utmost respect by not exposing it to fibrous or volatile organic chemical latent liners.

Indoor, the air passes a smooth aluminum surface that is clad to Kingspan’s Kooltherm closed cell rigid thermost resin insulated core. The outer layers include factory autohesively bonded FSK aluminum with a UV stable, 1000 micron titanium infused vinyl that is vacuum pressed and laminated permanently to Kingspan KoolDuct. Air distribution segments are connected together with an easy to use 4-bolt flange system. Once installed...all seams are sealed completely for uncompromising integrity and one of the best outdoor duct warranties in the industry.
Air distribution is a part of a construction project that is often ignored, yet accounts for up to 30% of the HVAC energy utilized. Building construction has employed thermal transmission reduction initiatives through the emerging energy codes, but most ducting systems in the US have not even achieved the performance of the average windows being installed today. When you combine the poor thermal performance with the excessive air leakage rates...your existing duct is letting you down.

Thermaduct is a patented pre-engineered duct system that incorporates the duct, insulation and cladding all in one high performance product. While other manufacturers use tapes, adhesives and screws, which experience degradation over time, Thermaduct uses a seamless heat formed corner or chemical welded seam to ensure impervious water integrity. A water tight duct also provides low air leakage...Thermaduct keeps the conditioned air in and the outdoor elements out!

Thermaduct’s patented Airtruss System provides a strong internal framework to handle static and dynamic loads such as wind, snow and rain, ensuring a robust system designed for the elements.

The ugly truth about outdoor duct

A perfect duct would not promote or harbor the growth of bacteria and would not allow air to leak in or out of the duct. Thermaduct is Kingspan KoolDuct fortified, offering performance that exceeds the standards of other duct offerings today. Consistent delivery of air over a non-corrosive aluminum surface with no open fibers over closed cell rigid thermoset resin insulation makes Thermaduct a perfect IAQ solution for your high specification outdoor ducting project.