

High-R  
Zero Air Leakage  
Water Tight  
Closed cell  
Zero Fiberglass Insulation  
10 Year Warranty

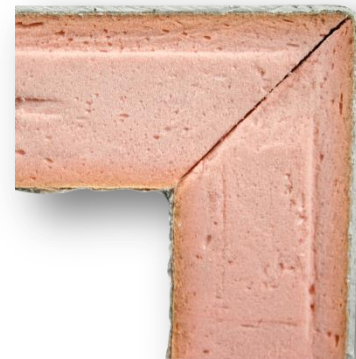
*There is simply no duct like it in the world. Thermaduct combines the best of air distribution technology with choice outdoor weather barrier to create a duct that offers the highest R-value and lowest air leakage rates in the industry. Unsurpassed performance was the goal to create a duct that can 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 thermoset resin. The outer layers include factory applied FSK aluminum with a UV stable vinyl that is vacuum pressed combined with either aluminum channels OR cohesively bonded vinyl couplings. Once installed...all seams are sealed completely for uncompromising integrity and the best outdoor duct warranty in the industry.*



outdoor ductwork **Solved**

High-R  
Zero leak  
Water tight  
Closed cell



**thermaduct**  
Outdoor duct solution

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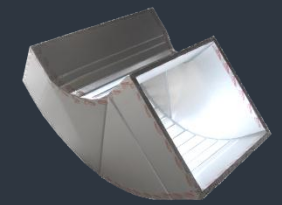


## The ugly truth about outdoor duct

### WHAT DOES YOUR DUCT DO FOR YOU?

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 though 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 thermal performance with air leakage rate experience...your existing duct is letting you down.

More imminent in most duct systems is migration of water into the air passage system. The proof is on the roofs of buildings that employ outdoor ductwork. As duct systems leak, they inflate and deflate the outer protective layer that is intended to provide water integrity. Over time...the performance of the moisture barrier degrades to a point where moisture is allowed in. Moisture reduces the performance of the insulation and augments microbial growth either on, or in, the duct.



### COMPLETE DUCT SOLUTIONS

From straight duct to fittings, thermaduct is prefabricated to go to the field ready to install. Field labor is reduced by a system of fittings that are made for each other and compliment the system with male and female companion parts. Sealed for performance!

### DUCTING SOLUTIONS

- UL 181 LISTED KOOLDUCT
- ANTI-MICROBIAL
- CLOSED CELL CONSTRUCTION
- HIGHEST R-VALUE SELECTIONS
- PROVEN LOW AIR LEAKAGE
- 10 YEAR LEAKAGE WARRANTY
- SEAMLESS VINYL CLADDING
- OPTIONAL INTERIOR DUCT OPTIONS
- BUILT IN THE USA
- UNION MADE

## delivering performance while saving energy

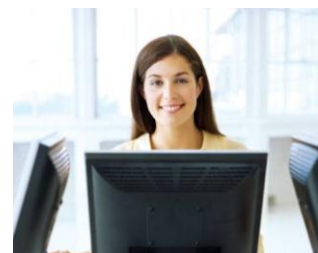
### A DUCT WITH A HIGHER IAQ

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 which achieves a UL181 banner. Thermaduct and KoolDuct performance exceed 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, UL181 Class I ductwork makes Thermaduct a perfect IAQ solution for your high specification outdoor ducting project.

### A CHOICE OF "R"

Thermaduct offerings of industry solutions like no other that meet or exceed the ASHRAE and ICC Energy Codes not only today...but 10 years from now. Choose one of the following or request custom values built to your order;

- R-8
- R-12
- R-14
- R-16
- R-20



### LEADERSHIP IN ENERGY EFFICIENT DESIGN

The promotion of Leadership in Energy Efficient Design is a goal to aspire to. No matter what level of achievement you set out to attain...Thermaduct outdoor ducting solutions will help you



meet your goal by providing points for high energy efficient product, zero ozone depletion and innovative product to name just a few. While many will ignore the simple fact that the R-value of most duct systems are less than 1/3<sup>rd</sup> the value on the roof...all the while the temperature difference can be as much as 2 times more, your choices earn you green, both now and in your future savings.

- High efficiency energy saving product.
- Innovative design
- Zero ozone depletion

**A duct  
with a  
higher  
IAQ**

