

SUPERIOR OUTDOOR AIR DISTRIBUTION

There is simply no duct like it in the world. Thermaduct combines the best of 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 thermoset 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 either 4-bolt flange, aluminum channels OR cohesively bonded vinyl couplings.* Once installed...all seams are sealed completely for uncompromising integrity and one of the best outdoor duct warranties in the industry.



thermaduct FEATURES

- High R-Value
- Virtually Zero Air Leakage
- Water Tight
- Closed Cell
- Fiber Free Insulation Core
- 10 Year Warranty



thermaduct
Outdoor Duct Solution

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OUTDOOR DUCT SOLVED



THE DUCTWORK DESIGNED FOR THE ELEMENTS

* Thermaduct is pre-engineered and pre-fabricated in certified facilities across the US.

THE UGLY TRUTH ABOUT OUTDOOR DUCT



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.

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. 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.



DUCTING SOLUTIONS

- PATENTED SYSTEM
- UL 181 LISTED KOOLDUCT LINER
- PASSES UL 181 MOLD GROWTH TEST
- CLOSED CELL INSULATION
- HIGHEST R-VALUE SELECTIONS
- PROVEN LOW AIR LEAKAGE
- 10 YEAR LEAKAGE WARRANTY*
- UV STABLE, 1000 MICRON 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, 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.



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-8.1** (1 Layer - 1 3/16" Panel)
- **R-12** (1 Layer - 1 3/4" Panel)
- **R-16.2** (2 Layers - 1 3/16" Panel)
- **R-20** (1 Layer - 1 3/4" Panel, 1 Layer - 1 3/16" Panel)
- **R-24** (2 Layers - 1 3/4" Panel)



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 1/3rd 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 future savings.



**RAIN
READY**

* See Product warranty for specific warranty details