

thermaroundTM

ARCHITECTURAL

Purchaser	P.O. #	Date
Project	Location	
Engineer	Architect	
Submitted by	For Approval	For Review Only

Introduction

ThermaDuct is proud to offer an architectural pre-insulated outdoor round ductwork that can be matched to other building design elements. ThermaDuct Architectural is a highly efficient, code compliant pre-insulated outdoor duct system designed to provide high R-values, extremely low air leakage, IAQ performance and design options to give multiple color match opportunities in HVAC applications. With a Kynar or Paint Grip finished metal exterior, this allows us to provide a duct system that will blend into building aesthetics. Using our highly efficient InspiraIR system on the interior, air will pass through a smooth aluminum surface on the interior of the duct, free from loose fibers.

OD Duct Construction Type

Place an "X" by the duct system that applies:

- ☐ R-12 ThermaDuct Architectural Aluminum FSK Duct Liner (Standard)
- ☐ R-12 ThermaDuct Architectural w/ Additional Liner (Comments Box)
- _____ " E.S.P.

Comments:

Properties

Color:	Choose Color on Page 3
Density:	Core: 3.43 - 3.75 pcf
Flammability:	Core: Kingspan KoolDuct, 25/50 compliant.
Minimum R-value:	R-12 both out of package and installed
Temperature Limits:	Interior; 185 F, Exterior; 185 F
Closed Cell Content:	Greater than 90%
Vapor Barrier:	Aluminum Duct Lining interior combined with Kynar or Paint Grip metal cladding
Fire/Smoke Performance:	UL 723 Flame Spread / smoke development interior <25/50 per ASTM E84

Standard Features

- Kynar or Paint Grip cladding
- Circular shape sheds water and snow
- Flanged connections
- High R-value
- Low air leakage
- Closed cell, zero fiber insulation
- Low and medium pressure class
- Sturdy hail and people resistant
- High impact resistance
- Fully assembled and factory sealed
- Closed cell foam interior
- Minimal usage of seams
- LEED point eligible
- 10 year limited warranty *

* See warranty statement for full warranty details



ThermaDuct Architectural arrives to the jobsite pre-fabricated with included drawbands

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Operating Recommendations:

It is recommended that the application of Thermaduct supplied be utilized for operation as a supply, return, fresh air and exhaust air ductwork applications for heating, ventilation, and air conditioning applications.

Air Velocity (Maximum)	5000 fpm / 25.4 m/s
Design Pressure (Maximum)	Positive 10" Negative 8" w.g. / 2500 Pa *
Temperature	Internal; Continuous -50°F to +185°F
Size Limitations	80" (consult factory above 80")

* Proper reinforcement required

Compliance/Testing:

Duct Interior: Closed Cell Phenolic Foam - UL (Underwriters Laboratories)
181 Listed as a Class 1 Air Duct when fabricated to a specification clearly defined by the UL.

Frictional Properties:

Thermaround Architectural is a factory assembled air distribution system that employs a smooth aluminum surface that has frictional characteristics of sheet metal duct. As a result, the frictional pressure drop data for galvanized sheet metal ductwork can be applied when designing and specifying Thermaround air distribution systems.

Health & Safety:

Thermaround Architectural high efficiency outdoor air distribution systems have a non-fibrous insulation core that is odorless, non-tainting, non-deleterious, chemically inert and safe to use.

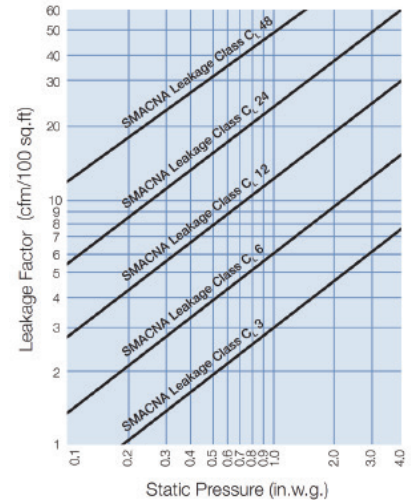
Additional Information:

Additional information, such as literature, job photos and case studies, can be found online at www.thermaduct.com or by calling (855) 566-5382. For general inquiries, you can also reach us at info@thermaduct.com.

Operating Recommendations:

Thermaround Architectural is designed to withstand a continuous maximum static pressure of 10 inches water gauge / 2500 pa* and is designed to have less than a SMACNA Air-Leakage Class 1 duct with the Thermaduct connection system.

Thermaround Architectural is designed to provide the lowest air leakage rates in the industry. By combining high efficiency InspiralR closed cell foam insulation core, all protected by a strong metal cladding ...you simply cannot find a more air tight and water resistant outdoor duct system anywhere. Combining the best products and techniques to create the finest exterior air distribution product for outdoor ducting applications that we can manufacture.



This chart is based on SMACNA HVAC Air Duct Leakage Test Manual, 1985 Edition found in Figure 4-1 under "Duct Leakage Classification".

Code Compliance:

Thermaround Architectural will meet or exceed all IECC energy codes and ASHRAE 90.1. energy standards for Buildings for both return and supply air ducts for both commercial and residential applications.

Thermaround Architectural is designed to meet the needs of outdoor duct applications by employing the assembly of the best technologies available in today's growing levels of energy saving performance. Thermaduct is manufactured under strict guidelines for health and safety in compliance to OSHA CFR29. All manufacturing is compliant to SMACNA duct construction methods employing trained and certified building trade professionals.

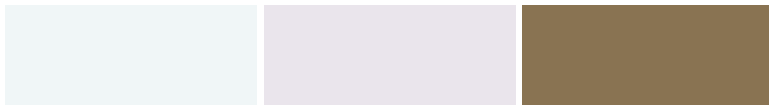
thermaround™

ARCHITECTURAL

Introduction

Thermaduct is proud to offer an architectural pre-insulated outdoor round ductwork that can be matched to other building design elements. With a premium Kynar Metal finish, Thermoaround Architectural offers exceptional insulated values and lower air leakage rates paired with select color options to give your application's exposed ductwork higher efficiency. Thermoaround Architectural is available for both indoor and outdoor applications.

Available Colors - KYNAR FINISH



REGAL WHITE

BONE WHITE

SURREY BEIGE



SANDSTONE

ALMOND

BUCKSKIN



ASH GRAY

SLATE GRAY

CHARCOAL



MATTE BLACK

MEDIUM BRONZE

DARK BRONZE



PATINA GREEN

HEMLOCK GREEN

EVERGREEN



MANSARD BROWN

COLONIAL RED

ROMAN BLUE



PATRICIAN BRONZE

TERRA COTTA

BRITE RED



REGAL BLUE

BRANDYWINE

HARTFORD GREEN



* Duct Finishes of Kynar are covered under Thermoaround's 10 Year Limited Warranty.

** Finish colors may vary from digital representations shown.

** Lead times may vary.