



## Description

Dual-Tech® is a pre-fabricated double-layer ducting system with an .032" aluminum jacket that uses Kingspan KoolDuct panels that are UL listed as a Class 1 Air Duct System meeting the standard UL 181. Dual-Tech® is CFC/HCFC-free, using a blowing agent that has zero Ozone Depletion Potential and low Global Warming Potential.

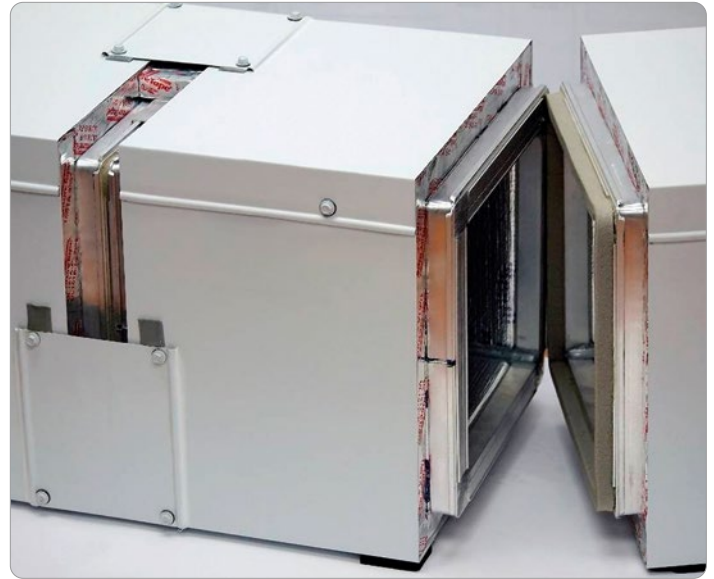
Dual-Tech® has a single install application; eliminating the need to install insulation as a second operation, thus saving time and improving construction schedules.

## Recommended Uses

Dual-Tech® is primarily designed for exterior HVAC ducting applications on new construction and existing HVAC upgrades. It is also suitable for interior applications in lieu of a jacketed insulation system (e.g. exposed ducting in mechanical equipment rooms, gymnasiums, etc.).

## Features and Benefits

- ◆ Fully assembled and factory sealed
- ◆ Single trade installation
- ◆ Improves installation speed (twice that of sheet metal and insulation)
- ◆ Superior strength (double-layer construction)
- ◆ R-16 thermal rating (greater values available)
- ◆ White heat reflective finish standard (others available)
- ◆ Low air leakage—less than 1%
- ◆ Inner layer fabricated to SMACNA 2015 Phenolic Duct Construction Standard
- ◆ UL-181 Listed Class 1 Ducting
- ◆ Whole life cost savings up to 30% over 30 years
- ◆ Eliminates fiberglass from the air stream
- ◆ Reduces weight loads (1/3 the weight of sheet metal & insulation), less than 2 lbs. per sq. ft.
- ◆ Reduction in CO<sub>2</sub> emissions (1.79 lb./sq. ft. of building floor area)
- ◆ Ductwork fabricated from the Kingspan KoolDuct system can contribute points towards achieving credits (including pilot credits) in many of the USGBC LEED rating systems
- ◆ 20 Year Limited Warranty



## General Properties

Mean Air Velocity (Max.)	5000 fpm / 25.4 m/s
Design Pressure (higher pressure gauges also available)	Positive: 6 in. w.g. / 1500 Pa Negative: 6 in. w.g. / 1500 Pa
Nominal Density Range of Insulation	3.43-3.75 pcf / 55-60 kg/m <sup>3</sup>
Closed Cell Content	>90%
Specific Heat Capacity of Insulation	0.45 Btu/lb · °F / 1.88 kJ/kg · °C
Minimum Compressive Strength at 10% Compression (BS EN 826: 1996)	29 psi / 200kPa
Thermal Conductivity (k-value) at 50-74°F Mean (ASTM C 518)	0.146 Btu · in/ft <sup>2</sup> · hr · °F
Thermal Resistance (Material R-Value: Installed & Out of Package) (ASTM C 518)	(2) 1-3/16" layers 16.2 ft <sup>2</sup> · hr · °F/Btu
Internal Air Temperature	-15°F to +185°F
Fire & Smoke Performance: The panels successfully pass the Burning Test (UL 181) and do not exceed flame spread / smoke developed indices 25/50 (ASTM E 84 / UL 723).	

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