

TECHNA-DUC®

INSULATION SYSTEM

Techna-Duc® Data Sheet

Description

Techna-Duc® is a pre-manufactured panel system. It is manufactured as a (4) four piece interlocking panel. The interlocking panels are fabricated from polyisocyanurate insulation, laminated in (2) two layers which equal a system R-16. The insulation is jacketed with .032 embossed aluminum, and sealed with vapor barrier compound. All joints interlock to insure an air tight seal. Panels are secured with #10 self tapping screws with weather seal washers.

Recommended Uses

Techna-Duc® is to be used on outside HVAC rectangular ductwork. The unique interlocking panels provide a weather tight seal as well as preserving thermal insulation value.

Advantages

Techna-Duc® is a shop fabricated panel system that can be fabricated from as built drawings and installed with minimum field alterations. The interlocking panels are made from polyisocyanurate insulation which does not promote the growth of mold or mildew. The polyisocyanurate is laminated in (2) two layers for ease of installation over T.D.C. joint ductwork. The interlocking panels prevent air penetration, intrusion of water, and water vapors. Therefore, air quality issues are virtually eliminated. **Techna-Duc®** panels are numbered per shop drawings for ease of installation. The panels are rigid enough to avoid any sagging and withstand weathering. All of these unique features enable us to provide a 20 year limited warranty.

Warranty

Techna-Duc® is backed by a limited 20 year warranty. No other duct insulation system offers the consumer this level of confidence.

Physical Properties (Insulation)

<u>Property of foil faced board</u>	<u>ASTM</u>	<u>Result</u>
Density, pcf (kg/m ³)	D 1622	Nominal 2 pcf (32)
•Water Vapor Transmission as permeance, in terms	E 96	Less than .03
•Water Absorption	C 209 (24 hours)	Less than 0.3%
•Flexural Strength in psi (kPa)	C 203	More than 40 psi (276)
•Operating Temp Range F (C)		-100° to +250° (-73° to 121°)
•2" Thick – System R*	C-236/C-518	R-16
•1/2" Thick – System R*	C-236/C-518	R-6.1

*The System R-value is the sum of the stabilized R-value plus additional R-value calculated when the aluminum foil surface is installed next to a non-ventilated 3/4" air space (R-value = 2.8). All values from the ASHRAE Fundamentals Handbook.



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Available only through:
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Techna-Duc®
"Success through Originality"