

# TECHNA-DUC®

## INSULATION SYSTEM

### Techna-Duc® Submittal Sheet

#### Description

**Techna-Duc®** is a pre-manufactured panel system for insulating exterior ductwork. It is manufactured as four-piece interlocking panels whose exact configuration varies to match the shape of the ductwork. The interlocking panels are fabricated from polyisocyanurate insulation, laminated in two Layers, which provide an installed R-16. The insulation is jacketed with .032" aluminum in a white finish and sealed with vapor barrier compound. All joints are interlocked to insure an air-tight seal. Panels are secured with #10 self-tapping stainless screws with weather-seal washers.

#### Recommended Uses

**Techna-Duc®** is for use on exterior rectangular ductwork. The interlocking panels provide a weather-tight seal and preserve thermal insulation value.

#### Advantages

**Techna-Duc®** is a shop-fabricated panel system built from drawings or field measurements 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 panels are laminated for ease of installation over TDC joints. The interlocking panels prevent air penetration, intrusion of water, and water vapor. **Techna-Duc®** panels are numbered per shop drawings for ease of installation. The panels are rigid enough to avoid sagging and withstand weathering. 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.

#### Insulation Physical Properties

Foil-faced board	ASTM	Result
Density, pcf (kg/m3)	D 1622	Nominal 2 pcf (32)
H <sub>2</sub> O Vapor Transmission permeance, in perms	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
½" Thick-System R*	C-236/C-518	R-6.1

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 Hbk.



**U.S. Patent No. 6,360,783 B2**  
**Issued March 26, 2002**

Available only through:  
**PTM Manufacturing, LLC.**  
196 Quigley Blvd.  
New Castle, DE 19720  
Phone (302) 455-9733

**Techna-Duc®**

**“Success through Originality”**