



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

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**Fi-Foil Company, Inc.  
612 Bridges Ave. West.  
Auburndale, FL 33823**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami Dade County Product Control Division (In Miami-Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Fi-Foil VR Plus Shield.**

**APPROVAL DOCUMENT:** Drawing No.1002, Sheets 1 of 1, titled "Product Installation Guide," dated 02/16/01 with last revision on 07/23/01, prepared by Fi-Foil Company, Inc. signed and sealed by R. O. Covington PE, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance (NOA) number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: None**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido F. Font PE.**

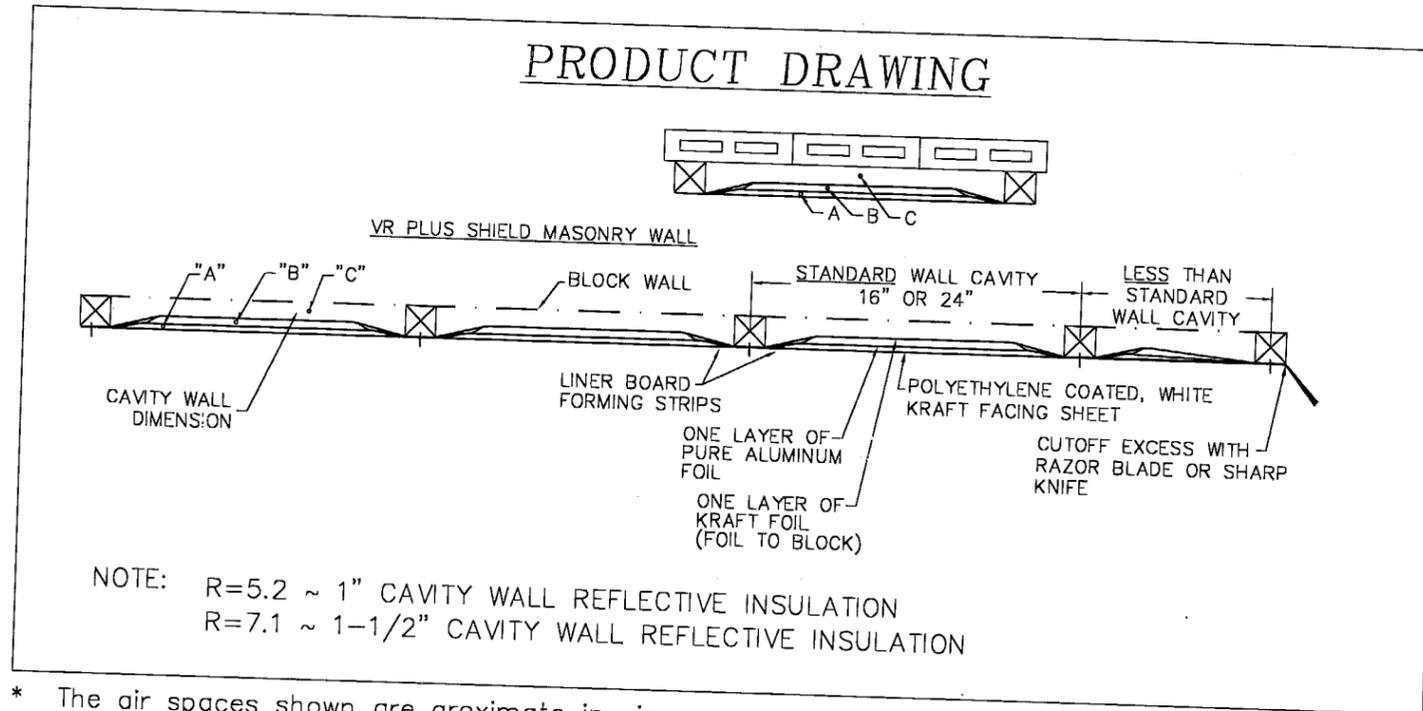


**NOA No: 01-0828.12  
Expiration Date: June 20, 2007  
Approval Date: June 20, 2002  
Page 1**

# VR PLUS SHIELD

## DESCRIPTION:

Fi-Foil VR Plus Shield is a reflective insulation and vapor barrier intended for the use on furred-out masonry walls. Wall application is permitted under Section 37 of The South Florida Building Code, with the following properties:



\* The air spaces shown are approximate in size.

Fi-Foil VR Plus Shield is a multi-layer reflective insulation and vapor barrier intended for use on furred-out masonry walls. The product expands to form three reflective air spaces. It consists of a layer of 35 lb. White Kraft paper coated with polyethylene, a layer of 30 lb. Natural Kraft Paper laminated to 0.0002599" pure aluminum foil with fire retardant adhesive, and a layer of a minimum of 0.0003599" pure aluminum foil. Upon installation the layers open using internal expanders. The internal air spaces range between 1/4" and 1/2". The outer air space thickness is dependant on the thickness of the furring strip.

## USE:

- (a) The insulation may be used within non-fire rated assemblies.
- (b) The insulation may be used within fire-rated assemblies that have been tested in accordance with ASTM E-119 or which are protected by and approved fire extinguishing system.
- (c) The insulation may be applied to room side surface or combustible or incombustible assemblies where protected by a thermal barrier having a finish rating of not less than 15 minutes.

## INSTALLATION:

See Manufacturer's Installation Instructions.

## PRODUCT SPECIFICATION TABLE

Properties	Standard	Result
Vapor Permeance	ASTM E96	0.20 perms
Flammability	ASTM E84	
Flame Spread Rating		20
Smoke Developed Rating		10
Interior Wall&Ceiling Finish Class		(1) A
Adhesive Performance		
Bleeding	ASTM C-1224,sect. 9.2.1	none
Delamination	ASTM C-1224,sect. 9.2.1	none
Corrosivity	ASTM D-3310	none
Mold & Mildew	ASTM C-1338	pass
Aluminum Emittance	ASTM C-1371	0.03
Thermal Performance	ASTM C-236/1224	
Heat Flow Horizontal		
1" Cavity	(3) Insulation Alone	(2) R - 5.2
1-1/2" Cavity	(3) Insulation Alone	R - 7.1

- (1) Per National Fire Protection Association Life Safety Code 101, Section 6-5.3
- (2) R = Hr SqFt °F / Btu
- (3) Excluding the furring strip area.

WALL CAVITY DIMENSION	"A"	"B"	"C"
1"	*1/4"	*3/8"	*3/8"
1-1/2"	*1/4"	*3/8"	*7/8"

Approved as complying with the Florida Building Code  
Date 06/20/02  
NOA# 01-6828.12  
Miami Dade Product Control Division  
By [Signature]  
FOR OFFICE USE ONLY

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DRAWN BY: JSN	DATE: 2/16/01	DWG. TITLE: PRODUCT INSTALLATION GUIDE	
REVISIONS	DATE	TITLE: VR Plus Shield	SCALE: NONE
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FI-FOIL PART #: F-VRPXXXXX		FI-FOIL CO.	