



Certificate Of Authorization # 0008172

July 26, 2002

Jamie D. Gascon  
Miami-Dade Building Code Compliance Office  
Metro-Dade Flagler Building, Suite 1603  
140 West Flagler Street  
Miami Florida 33130-1563

Re: Laboratory Compliance Letter ( 00-0823.07)

Dear Mr. Gascon:

The Metro-Dade Protocol PA 114 -95 , Appendix " J " test reported in report IRT-ARCON No. 02-026 for ES Products Inc. has been performed in full accordance to the requirements of Dade County, with no deviations.

If you have any questions, Please do not hesitate to call our office.

Sincerely,

Bob Tedder, RRO, CSI, RCI  
IRT-ARCON, Inc.

Cc. IRT-ARCON File

Ali Yemenciler  
Florida P.E. # 54733

**July 26, 2002**

**ES Products Inc.,  
280 Franklin Street  
Bristol, RI 02809**

**Test Report No.: 02-026  
Dade County Reference Number: 02-026**

## **I Scope**

- 1.01 **ES Products Inc.**, requested testing in a 12' x 24' vacuum chamber of the below listed roofing assemblies. This testing was conducted in accordance with **Dade County Protocol PA114, Appendix 'J'**. You will find a copy of the Protocol attached to this report.
- 1.02 In compliance Miami-Dade County Test Notification procedures, a notification was provided to Miami-Dade County Building Code Compliance office and the following Test Notification Number assigned, IRT# 02-011.
- 1.03 A copy of this report will be submitted to **ES Products Inc.**. All samples were tested to failure.
- 1.04 Testing was photographed and videotaped, copies available from IRT-ARCON upon request.
- 1.05 Roof assemblies and test results are enumerated in Section V of this report.
- 1.06 Testing was performed on July 26, 2002.

## **II Testing Apparatus**

- 2.01 12' x 24' Vacuum dome, simulated uplift apparatus, in compliance with Dade County Protocol PA-114, Appendix 'J', Section 3.

### III Test Procedure

- 3.01 Testing procedure is in compliance with Section 5 of Dade County Protocol PA-114, Appendix 'J'.

### IV Test Specimen

- 4.01 Test specimen is in compliance with Section 5 of Dade County Protocol PA-114, Appendix 'J'.

### V Test Assembly and Results

#### 5.01

#### **IRT 02-026 (Cementitious wood fibre, Glasply felt Type 6, Dynaglass 30FR)**

<b>Assembly</b>	
<b>Cementitious wood fiber Deck</b>	CHS Bulb-Tee 112 was puddle welded (1/2" long, 5/8" width) with spacing 32 5/8". Bulb-tee's were cut to length and fastened with Generic Tek type 5 fasteners 1 1/4" long on each end at the seams of the wood fiber panels (The detailed specifications after wood fiber used is attached in the report). USG Gypsum pyrofill was poured (8.5 gallon of water per 80 pound Gypsum) in the sides and ends of the wood fibre pannels to ensure a monolithic assembly.
<b>Glasply Felt Type 6</b>	Mechanically attached with 1.8" Twin Loc-Nail fasteners 3" side lap, 2 staggered rows 12" o.c. in the field and 9" apart between the laps.
<b>Dynaglass 30 FR</b>	Adhered to the Glasply felt Type 6, in full mopping of Type 3 asphalt at the rate of 25 lb. per one roof square.

**Test Results IRT 02-026**

<b>Failure Pressure</b>	<b>Failure Time (sec.)</b>	<b>Mode of Failure</b>	<b>Passing Pressure (psf) <i>Last Pressure Held for One Minute</i></b>	<b>Safety Margin as per SFBC 2 to 1</b>
<b>-180 psf</b>	<b>05 sec</b>	<b>Fracture in the Cap sheet above the Fasteners</b>	<b>-165 psf</b>	<b>-82.5 psf</b>

**Observations:** The 12' x 24' (3.6 x 7.3m) simulated wind uplift test sample did meet the 90 psf minimum Dade County requirements for Class I-90 wind storm classification. Failure occurred during the incremental increase from -165 psf to -180 psf due to **Fracture in the Cap sheet above the Fasteners**

End Test 02-026

Technician: John Kuchler Jr

  
8/2/02  
Ali N. Yemenciler P.E.  
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