



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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Protective Glass Industries, Inc.
6431 Topaz Ct.
Fort Meyers ,FL 33912

Your application for Notice of Acceptance (NOA) of:

TPG-2000

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0305.01
EXPIRES: 05/10/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 05/10/2001

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1.0 **SCOPE:**

1.1 This approves a laminated glass as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County (S.F.B.C.) for the location where the requirements as determined by SFBC Chapter 35 are met.

2.0 **PRODUCT DESCRIPTION:**

2.1 The **Tri-Pane Glass (TPG-2000)** shall comply with the properties of the following document: Document No. 1, sheet 1 of 1, prepared by McCarthy and Associates, Inc., signed and sealed by D. L. Shumate PE. on 04/02/01 with no revisions. It bears the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. This document shall hereinafter be referred to as the approved drawing.

3.0 **LIMITATIONS:**

3.1 This approval does not include an evaluation of structural performance of this component. Test reports and other required documents shall be submitted to Dade County Product Control; showing that the systems using this laminated glass will resist the loads according to Chapter 23 of the S.F.B.C., in order to issue an specific product approval for the system.

4.0 **INSTALLATION:**

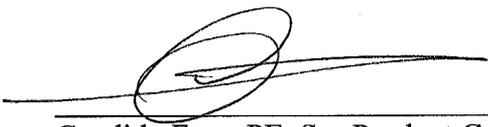
4.1 The laminated glass shall be fabricated in strict compliance with the manufacturer's instructions, the approved drawing and the applicable Section of the South Florida Building Code.

5.0 **LABELING:**

5.1 Each sheet shall bear a permanent label in the corner of the laminated sheet with: Name of Glass "TPG-2000", Source of film laminator, source of polycarbonate "(1) General Electric Lexan or (2) Sheffield Hyzod", identification of fabricator and "MCA" standing for Miami-Dade County Approved. List, and letter designation of authorized laminators, and authorized fabricators is available in the approval file."

6.0 **BUILDING PERMIT REQUIREMENTS:**

- 6.1 Application for Building Permit shall be accompanied by copies of the following:
 - 6.1.1 This Notice of Acceptance (NOA) and the (NOA) of the system using this component.
 - 6.1.2 Duplicate copies of the approved drawings as identified on section 2 of the NOAs.
 - 6.1.3 Any other document required by the Building Official or the South Florida Building Code in order to properly evaluate the installation of the system


Candido Font, PE, Sr., Product Control Examiner
Product Control Division

Protective Glass Industries, Inc.

ACCEPTANCE NO: 01-0305.01

APPROVED: MAY 10 2001

EXPIRES: MAY 10 2006

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.


Candido Font, PE, Sr., Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

Protective Glass Industries, Inc.

ACCEPTANCE NO: 01-0305.01

APPROVED: MAY 10 2001

EXPIRES: MAY 10 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED
(For File Only. Not Part of NOA.)

A DRAWING:

1. Document No. 1 of sheet 1 of 1, prepared by McCarthy and Associates, Inc., signed and sealed by D. L. Shumate PE on 04/02/01, with no revision.

B TEST REPORTS:

Laboratory Report	Test	Date	Signature
1. SGS 151836-1&2	ASTM D 635	02/21/01	D. Lepore
2. SGS 138598-1&2	ASTM D1929	04/04/00	J. V. Houten
3. SGS 143564-1&2	ASTM E84	08/09/00	J. V. Houten.
4. TCTC 1800872	ASTM G26 & D638	01/22/00	D. J. Swanson, PE

C CALCULATIONS:

N/A

D MATERIAL CERTIFICATION:.

N/A

E STATEMENTS:

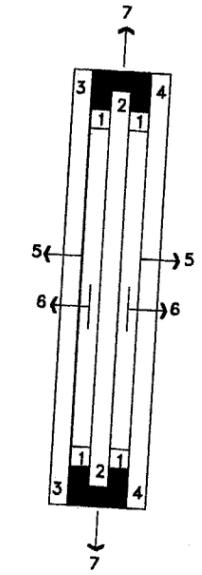
1. Letter of No Financial Interest and Code c
2. Compliance issued by McCarthy and Associates, Inc. issued on 05/25/00, signed and sealed by D. L. Shumate, PE.
3. Letter of Transfer of monies and test reports from Carolina aluminum & Vinyl Co. to Protective Glass Industries, Inc. issued on 02/22/01, signed by P. S. Burik.



Candido Font, PE, Sr., Product Control Examiner
Product Control Division

EI

TPG - 2000



APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **MAY 10 2001**
BY _____
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0305.01

1: EDGETECH SUPER SPACER: AN ACRYLIC BONDED, DESICCANT FILLED STRUCTURAL FOAM SPACER USED FOR STRUCTURAL STRENGTH AND ELIMINATING CONDENSATION.

OR

INNERCEPT: A DUAL- SEAL EQUIVALENT, DESICCANT FILLED STRUCTURAL METAL SPACER USED FOR STRUCTURAL STRENGTH AND ELIMINATING CONDENSATION.

2: 1/8" HYZOD BY SHEFFIELD PLASTICS' POLYCARBONATE: PRIMARY FUNCTION IS TO PROVIDE THE STRUCTURAL AND IMPACT STRENGTH NEEDED TO WITHSTAND DADE COUNTY IMPACT AND CYCLING TEST. NOA # 98-0515.03

OR

1/8" LEXAN BY GENERAL ELECTRIC PLASTICS' POLYCARBONATE: PRIMARY FUNCTION IS TO PROVIDE THE STRUCTURAL AND IMPACT STRENGTH NEEDED TO WITHSTAND DADE COUNTY IMPACT AND CYCLING TEST. NOA # 00-0718.02

3: ANNEALED, TINTED, TEMPERED, LOW-E, REFLECTIVE, OR OBSCURE GLASS: THICKNESS MAY VARY DEPENDING ON APPLICATION.

4: ANNEALED, TINTED, TEMPERED, LOW-E, REFLECTIVE, OR OBSCURE GLASS: THICKNESS MAY VARY DEPENDING ON APPLICATION.

5: 7 MILL POLYESTER FILM (CL-700-XSR) FROM MADICO INC.: PRIMARY FUNCTIONS ARE PROTECTION AGAINST BROKEN GLASS PIECES (GLASS STAYS ADHERED TO FILM DURING IMPACT) AND PROTECTING THE POLYCARBONATE (THE STRUCTURAL COMPONENT) FROM DAMAGING ULTRA VIOLET RAYS THAT MAY CAUSE THE POLYCARBONATE TO YELLOW.

OR

8 MIL POLYESTER FILM (LCL-800-XSR) FROM MADICO INC.: PRIMARY FUNCTIONS ARE PROTECTION AGAINST BROKEN GLASS PIECES (GLASS STAYS ADHERED TO FILM DURING IMPACT) AND PROTECTING THE POLYCARBONATE (THE STRUCTURAL COMPONENT) FROM DAMAGING ULTRA VIOLET RAYS THAT MAY CAUSE THE POLYCARBONATE TO YELLOW.

6: ARGON GAS FILLED AIRSPACE: PROVIDES INCREASED THERMAL AND ACOUSTICAL VALUES.

7: BOSTIC 9190/ WARM-APPLIED ELASTOMERIC INSULATING GLASS SEALANT: A ONE-COMPONENT, 100 % SOLIDS SEALANT SYSTEM SPECIFICALLY DEVELOPED FOR EDGE SEALING INSULATED GLASS UNITS. PRIMARY PURPOSE IS FOR MOISTURE VAPOR TRANSMISSION OR KEEPING MOISTURE FROM ENTERING THE INSULATED GLASS UNIT.

DESCRIPTION: A TRI-PANE INSULATED GLASS, CONSISTING OF 3 DIFFERENT PANES. THE INTERIOR AND EXTERIOR BEING GLASS WITH A SECURITY FILM LAMINATED TO THE INSIDE OF EACH LITES, AND THE CENTER MADE OF POLYCARBONATE.

MATERIAL CHARACTERISTICS

DESIGNATION	TEST	7 MIL RESULTS	8 MIL RESULTS
SELF IGNITION TEMP	ASTM D1929	880	880
FLASH IGNITION TEMP	ASTM D1929	760	760
FLASH SPREAD INDEX	ASTM E-89	5	5
SMOKE DEVELOP INDEX	ASTM E-89	65	65
AVG. TIME OF BURNING	ASTM D-635	NO BURN	NO BURN
AVG. FIX TEMP OF BURNING	ASTM D-635	NO BURN	NO BURN
TENSILE YIELD STRENGTH	ASTM D-638 (1)	19600	23200
TENSILE YIELD STRENGTH	ASTM D-638 (2)	19000	25100
(1) BEFORE WEATHERING			
(2) AFTER WEATHERING			

WEATHERING PER 3505.2 (b) OF TH S.F.B.C.

David Shumel
4/2/01

Protective Glass Industries	<p>McCarthy and Associates, Inc. CONSULTING ENGINEERS 12221 Towne Lake Drive, Suite B Ft. Myers, FL 33913 (Tel.) 941-561-8774 (Fax) 941-561-8778 FLORIDA COA NO. 4187</p>	<h1>TPG - 2000</h1>